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A Member of the Environmental
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January 31, 1994

Ms. Karen Vendl
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77 West Jackson Boulevard, HSRL-6J
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Mr. James Smith, Coordinator of Superfund Section
Indiana Department of Environmental Management
100 North Senate Avenue
Indiana Government Center North Rm. No. 1255
Indianapolis, Indiana 46204

RE: EnviroChem Superfund Site
Support Zone Investigation

Thank you for your January 11, 1994 letter describing the requirements for the pre-QAPP meeting. The requested draft Support Zone Field Sampling Plan is attached.

This Plan is intended to describe a logical approach to determine the nature and extent of contamination in two areas: northwest of the Concrete Pad and around the east end of the waste water storage pad. Analytical methods meeting Levels 1 and 4 Data Quality Objectives will be used for the field screening and laboratory analyses, respectively.

If you have any questions, please do not hesitate to call.

Very truly yours,

A handwritten signature in black ink, appearing to read 'R.O. Ball'.

Roy O. Ball, Ph.D., P.E.
Engineer

Enclosure

ddw

cc: Norman W. Bernstein, Esq., Arent Fox
John J. Kyle, Esq., Barnes and Thornburg
Tim Harrison, CH2M-Hill

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**SUPPORT ZONE INVESTIGATION
FIELD SAMPLING PLAN
ENVIROCHEM SITE
ZIONSVILLE, INDIANA**

REVISION: 0

FEBRUARY 1994

PREPARED BY:

**ENVIRONMENTAL RESOURCES MANAGEMENT-NORTH CENTRAL, INC.
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PROJECT NO. 94005**

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1.0 INTRODUCTION

This Field Sampling Plan (FSP) presents the method of soil sample collection to determine the nature and extent of potential contamination encountered in the soils of the support zone at the Environmental Conservation and Chemical Corporation (EnviroChem) site. The areas to be investigated are northwest of the concrete pad and the eastern end of the wastewater storage pad. Section 1.0 presents the results of previous sampling efforts in these locations and objectives for the new round of sampling. Section 2.0 discusses sample location and frequency for this support zone investigation. Sections 3.0 and 4.0 present procedures and sample handling and analysis, respectively.

1.1 Background

Construction of the EnviroChem Superfund Site - Site Preparation and Material Removal (SPMR) Project commenced on September 1, 1993. The effort included the demolition of buildings and removal of debris both inside and outside the remedial boundary and construction of the support zone and support zone facilities. During excavation activities outside the remedial boundary, two areas of potential contamination were located. Sections 1.1.1 and 1.1.2 describe the areas and the previous sampling efforts in each area.

1.1.1 Area Northwest of the Concrete Pad

On October 8, 1993, during SPMR construction, potentially contaminated soils were encountered. This finding was reported to the U.S. Environmental Protection Agency (USEPA) and detailed in SPMR Monthly Progress Reports #2 and #3 which covered the

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period between September 11, 1993 and November 11, 1993. The location of the potential contamination is represented by a bullet symbol shown on Figure 1-1 and occurs in a gravel layer approximately 1 foot below grade. This layer is approximately 1/2-foot-thick and was exposed during the excavation activities to a length of approximately 5 feet. After this layer was identified, the Support Zone North Diversion Channel excavation efforts in this location were stopped, the excavated channel was backfilled, the excavation equipment was decontaminated, and the area was marked with caution tape.

The EnviroChem Trustee Engineer (the Engineer) notified the USEPA and the Indiana Department of Environmental Management (IDEM) and prepared the "Sampling and Analysis Plan for Diversion Channel Northwest of Concrete Pad" (the Hand Auger Investigation Plan) which was submitted to IDEM and the USEPA on behalf of the EnviroChem Trustees on October 12, 1993. The USEPA verbally provided comments on the plan on October 13. The Hand Auger Investigation Plan included soil boring by hand auger in the area of potential contamination, field screening by headspace analysis with an organic vapor analyzer (OVA), and laboratory analysis of selected soil samples. The field sampling was initiated on October 13, 1993.

The results of the field screening activities were reported in SPMR Monthly Progress Report #3. The screening and sampling locations, HA-1 through HA-20, are shown on Figure 1-1. Table 1-1 presents a summary of the field screening results. Auger refusal occurred in a discontinuous packed gravel layer at the 0.5- to 1.5- foot interval at fourteen of the twenty sample locations. Areal distribution of the potential contamination could not be reliably estimated by the field screening results. Without reliable field screening results to determine sample locations, one sample location in the

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potential contamination area and two sample locations west of the potential contamination area were selected for laboratory analysis of volatile organic compounds (VOCs) by using the USEPA's SW-846 Method 8240A. The analytical results would establish the soil concentrations at increasing distances west of the location of potential contamination and the remedial boundary.

Soil samples obtained from locations HA-3 and HA-16 shown on Figure 1-1 taken from the 0.5- to 1.0-foot and 1.5- to 2.0-foot intervals, respectively, and from the "source" material were submitted to Heritage Laboratories, Inc. (Heritage) of Indianapolis, Indiana. The analytical results are summarized on Table 1-2. Certificates of Analysis are included in Appendix A. The analytical results indicate that the concentrations of VOCs decrease with increasing distance west of the remedial boundary. In fact, VOCs were not detected in the HA-3 and HA-16 samples above the site-specific acceptable soil concentrations (Table 3-1 Exhibit A of the Consent Decree entered September 1, 1991, Number 83-1419 C, U.S.D.C., Southern District of Indiana).

1.1.2 Wastewater Storage Pad Sump

A decontamination pad and a wastewater storage pad were constructed during the SPMR project. The Independent Quality Assurance Officer collected soil samples from the base of the excavations of each pad to establish the background soil concentrations.

Sample locations were determined by setting a grid on each pad excavation and randomly selecting four grid cells on each pad. The grids for the decontamination pad and wastewater storage pads are shown on Figure 1-2. The randomly selected sample locations for the wastewater storage pad and decontamination pad investigation are

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shown on Figure 1-1. In addition, soil samples were collected from the base of each pad's sump excavation. All samples were submitted to Heritage for analysis of VOCs, semivolatile organic compounds (SVOCs), pesticides/polychlorinated biphenyls (pesticides/PCBs), barium, cadmium, chromium, lead, silver, arsenic, selenium, and mercury by USEPA's SW-846 Methods 8240A, 8270A, 8080, 6010A, 305A, and 7471 (modified). Sample analytical results are summarized on Tables 1-2 and 1-3. ~~Certificates~~ of Analysis are included in Appendix B.

As shown on Tables 1-2 and 1-3, the site-specific acceptable soil concentrations were only exceeded in the wastewater storage pad sump sample. In this sample 1,1-dichloroethane was detected at 15 parts per billion (ppb). The east end of the wastewater storage pad is proposed to be sampled during this investigation to determine the extent of soils above the site-specific acceptable concentrations.

1.2 Objectives of New Sampling

Soil samples will be collected and analyzed to determine the extent and severity of contamination found during construction of the Support Zone North Diversion Channel and during the wastewater storage pad investigation. The data to be collected will be used to determine the final location of the Support Zone North Diversion Channel and determine if any changes to the remedial boundary on the central west side of the site are necessary.

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TABLE 1-1

**SOIL SAMPLING HEAD SPACE RESULTS
HAND AUGER INVESTIGATION (1)
ENVIROCHEM SITE
ZIONSVILLE, INDIANA**

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DEPTH BGS (feet)	HA-1 OVA READINGS	HA-2 OVA READINGS	HA-3 OVA READINGS	HA-4 OVA READINGS	HA-5 OVA READINGS	HA-6 OVA READINGS	HA-7 OVA READINGS	HA-8 OVA READINGS	HA-9 OVA READINGS	HA-10 OVA READINGS
0.0 - 0.5	10	24	1	0	7	50	40	>1,000	62	1
0.5 - 1.0	220	NS AR	1.5 S	0	>1,000	220	79	>1,000	9	0
1.0 - 1.5	NS	AR	NS	0	NS	AR	NS	AR	0	20
1.5 - 2.0	NS	NS	3	0.5	NS	NS	NS	NS	0	10
2.0 - 2.5	NS	NS	NS	0.5	NS	NS	NS	NS	1	34
2.5 - 3.0	NS	NS	16	0	NS	NS	NS	NS	3	50
3.0 - 3.5	NS	NS	NS	1.5	NS	NS	NS	NS	6	200
3.5 - 4.0	NS	NS	0.5	4.5	NS	NS	NS	NS	NS AR	850
4.0 - 4.5	NS	NS AR								
4.5 - 5.0	NS	NS	1	NS						

DEPTH BGS (feet)	HA-11 OVA READINGS	HA-12 OVA READINGS	HA-13 OVA READINGS	HA-14 OVA READINGS	HA-15 OVA READINGS	HA-16 OVA READINGS	HA-17 OVA READINGS	HA-18 OVA READINGS	HA-19 OVA READINGS	HA-20 OVA READINGS
0.0 - 0.5	2	4	NS AR	NS AR	23	15	55	58	600	34
0.5 - 1.0	NS AR	42	NS AR	NS	9	33	NS AR	14	>1000	97
1.0 - 1.5	NS	NS AR	NS	NS	NS AR	700	NS	NS AR	620	NS AR
1.5 - 2.0	NS	NS	NS	NS	NS	1000 S	NS	NS	400	NS
2.0 - 2.5	NS	NS	NS	NS	NS	300	NS	NS	NS AR	NS
2.5 - 3.0	NS	NS	NS	NS	NS	210	NS	NS	NS	NS
3.0 - 3.5	NS	NS	NS	NS	NS	280	NS	NS	NS	NS
3.5 - 4.0	NS	NS	NS	NS	NS	110	NS	NS	NS	NS
4.0 - 4.5	NS									
4.5 - 5.0	NS									

Key:

OVA = Organic vapor analyzer.

NS = No sample.

BGS = Below ground surface.

S = Sample collected

AR = Auger refusal

Note:

(1) OVA headspace readings in Volumetric parts per million.

TABLE 1-2
SOIL SAMPLING ANALYTICAL RESULTS
HAND AUGER INVESTIGATION
ENVIROCHEM SITE
ZIONSVILLE, INDIANA

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PARAMETERS	Acceptable Concentration (1)	Support Zone Sample	HA-3 0.5-1.0'	HA-16 1.5-2.0'
Volatile Organic Compounds (2)				
Methylene chloride	20	42	8	5
Toluene	238000	75	20	6
1,1,1-Trichloroethane	7200	710	74	11
Trichloroethene	240	73	21	7
Tetrachloroethene	130	320	ND	ND

Key:

HA = Hand auger sample.

ND = Not detected.

Notes:

(1) Reference: Table 3-1 Exhibit A Consent Decree.

(2) EPA Method (SW846-8240A) soil concentration in (ug/kg).

TABLE 1-3
SOIL SAMPLING ANALYTICAL RESULTS
DECONTAMINATION PAD AND WASTE WATER STORAGE PAD
ENVIROCHEM SITE
ZIONSVILLE, INDIANA

PARAMETERS	Mean (1)	Acceptable Concentration (2)	WWP-sump	WWP-3	WWP-18	WWP-19	WWP-22	DP-sump	ECC-DP-06	ECC-DP-009	ECC-DP-15	ECC-DP-15DUP	ECC-DP-22
Volatile Organic Compounds (3)													
Acetone	-	490	75	ND	ND	65	ND	ND	ND	ND	ND	ND	ND
Benzene	-	-	6	ND	ND	ND	ND	ND	ND	10	7	9	ND
Chloroethane	-	-	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	-	5.7	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	-	234000	330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	-	20	7	11	7	8	ND	13	10	14	10	13	8
Toluene	-	238000	25	16	ND	10	6	ND	ND	ND	ND	ND	7
1,1,1-Trichloroethane	-	7200	34	73	27	28	28	ND	ND	35	32	60	10
Trichloroethene	-	240	6	32	7	10	8	ND	ND	79	93	130	49
Xylene	-	195000	100	ND	ND	ND	ND	ND	ND	16	9	ND	10
Tetrachloroethene	-	130	ND	ND	ND	ND	ND	ND	ND	10	10	11	ND
Trichloro-trifluoroethane	-	-	-	-	-	-	-	15	-	-	-	-	-
Semivolatile Organic Compounds (4)													
SVOCs	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls/Pesticides (5)													
PCBs	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics (6)													
Arsenic	16.8	-	2.7	4.6	4.4	5.8	4.8	3.7	5.4	83	91	92	4
Barium	97.2	-	40	40	46	76	37	27	33	4.2	5.6	5.8	54
Cadmium	-	-	ND	ND	9.7	ND	ND	ND	1.6	79	37	35	2.2
Chromium	17.7	-	11	8.9	ND	16	7.8	7.5	7	2.8	1.9	1.9	12
Lead	16.8	-	9	8.8	12	12	8.2	6.5	5.8	14	8.2	7.7	12
Mercury	-	-	ND	ND	ND	ND	ND	ND	ND	12	5.7	6.9	ND
Selenium	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Key:

ND = Not detected.

NA = Not analyzed.

- = No value.

HA = Hand auger sample.

WWP = Wastewater storage pad sample.

DP = Decontamination Pad sample.

Notes:

(1) On-Site Upper 95% Confidence Interval of the Mean; Reference: EnviroChem Remedial Investigation Report (1983).

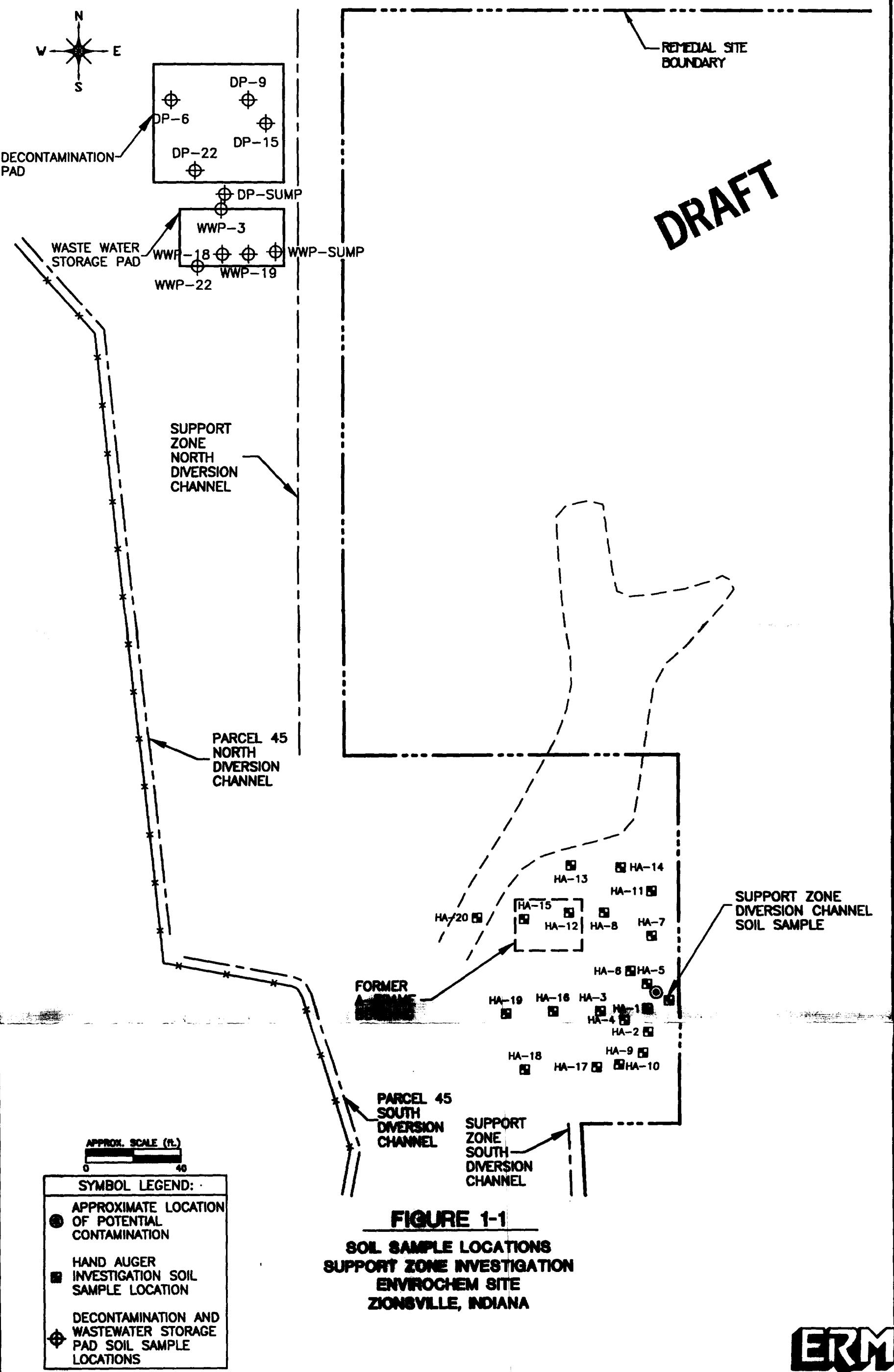
(2) Reference: Table 3-1 Exhibit A Consent Decree.

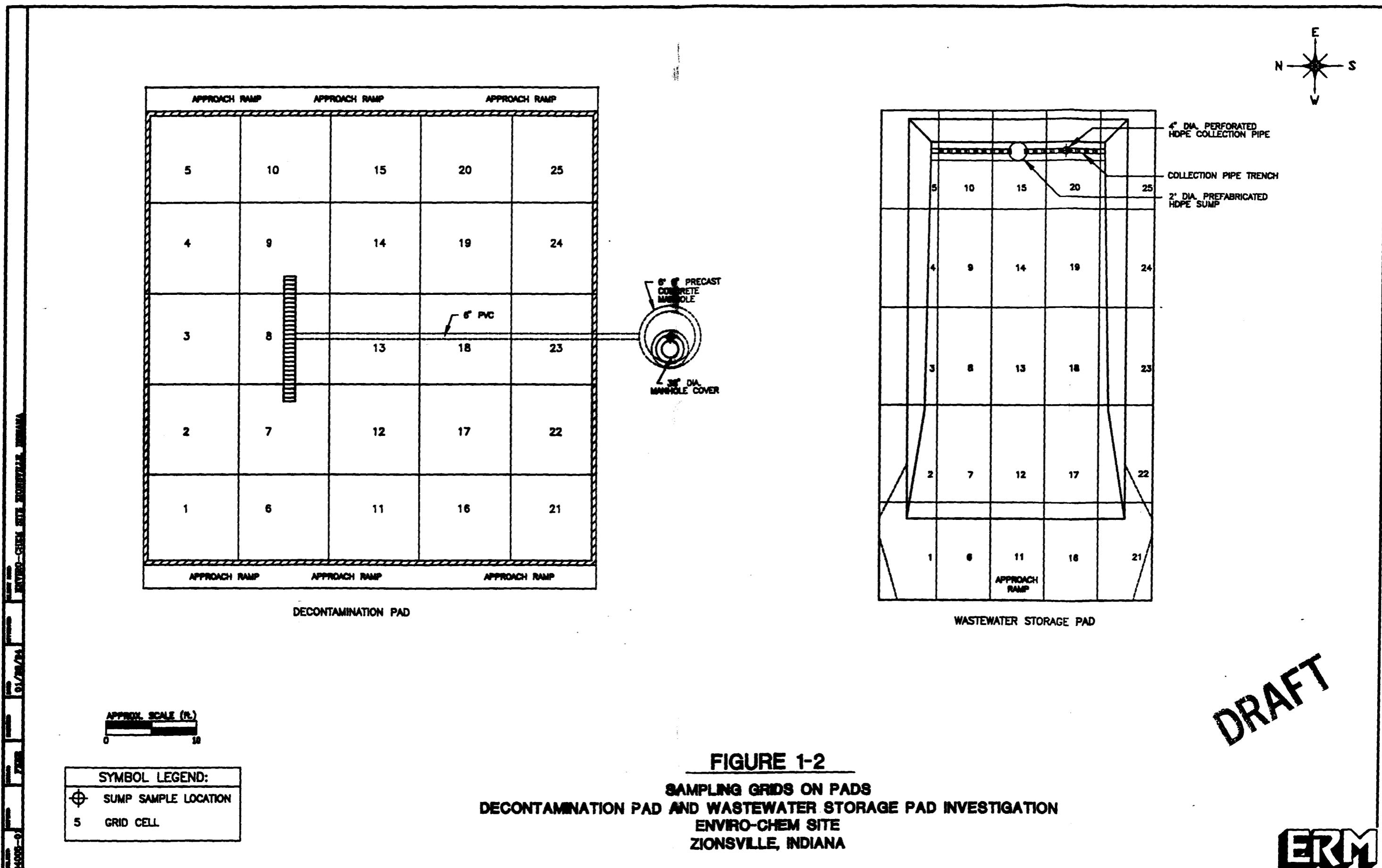
(3) EPA Method (SW846-8240A) soil concentration in (ug/kg).

(4) EPA Method (SW846-8270A) soil concentration in (ug/kg).

(5) EPA Method (SW846-8080) soil concentration in (ug/kg).

(6) Inorganics soil concentration in (mg/kg)





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2.0 SAMPLE LOCATION AND FREQUENCY

This section presents the sample location and frequency for this investigation. Section 2.1 discusses sampling in the area northwest of the concrete pad and Section 2.2 discusses sampling in the wastewater storage pad sump area.

2.1 Area Northwest of Concrete Pad

The extent of this investigation is a rectangular area. The south and east sides of the rectangle are defined by the remedial boundary. The west side was determined by the results of the Hand Auger Investigation. As discussed in Section 1.1.1, the analytical results from samples HA-3 and HA-16 demonstrated soil concentrations are below the site-specific acceptable soil concentrations in those locations; therefore, this investigation will be bounded on the west by a north-south line between these two locations. The north side of the rectangular area was established using information obtained during the excavation of the Support Zone North Diversion Channel. Excavation to construct the Support Zone North Diversion Channel began north of the A-frame building and proceeded south. Prior to encountering the potential contamination excavation did not unearth contamination, so the northern boundary of this investigation is conservatively established on an east-west line off the southeast corner of the A-frame building's former location. The extent of this investigation is shown on Figure 2-1.

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Sample locations were randomly selected by establishing a grid over the area to be investigated. The distance between grid lines (i.e., the grid interval) was determined by using the formula included in Instructions for the Preparation of Closure Plans for Interim Status Facilities by the Illinois Environmental Protection Agency (IEPA) - Division of Land Pollution Control, dated March 2, 1989. The formula is as follows:

$$GI = (A/\pi)^{0.5} / 2$$

Where:

GI = Grid interval in feet, and
A = Area in square feet.

The estimated area of this investigation is approximately 3,250 square feet. Using this area as the total sampling area, a grid spacing interval of approximately 16 feet is obtained which is rounded to 15 feet. As illustrated on Figure 2-1, the sample grid was established over the estimated area of investigation.

The USEPA document Test Methods for Evaluating Solid Wastes - SW-846 (September 1986) states on page Nine-10: "... if little or no information is available concerning the distribution of chemical contaminants of a waste, simple random sampling is the most appropriate sampling strategy."

Table 9-2 of SW-846 shows the decrease of the Student's "t" statistic based on the degrees of freedom. As shown in Figure 2-2, the reduction in the "t" statistic is small beyond 3. Therefore, four randomly located samples will be collected from the investigation area.

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Each grid intersection was then assigned a number and four sampling locations were selected by using a calculator capable of random number generation. The sampling locations are shown on Figure 2-1.

The soil borings will be continuously sampled and advanced to a maximum depth of 12 feet. Headspace and laboratory samples will be collected at 2-foot intervals of the boring and each sample will be screened in the field for VOCs using the OVA headspace technique. Based on the field screening and visual inspection of the soil, the samples collected from the soil interval believed to be most contaminated and from the deepest interval of the boring will be submitted for laboratory analysis of Target Compound List (TCL) VOCs by the Contract Laboratory Program Statement of Work (CLP SOW) method OLM01.1. Even if no contamination is detected by screening, one soil sample will be collected from the 2.0- to 3.0- foot interval in each boring to verify the absence of contamination.

2.2 Wastewater Storage Pad Sump Area

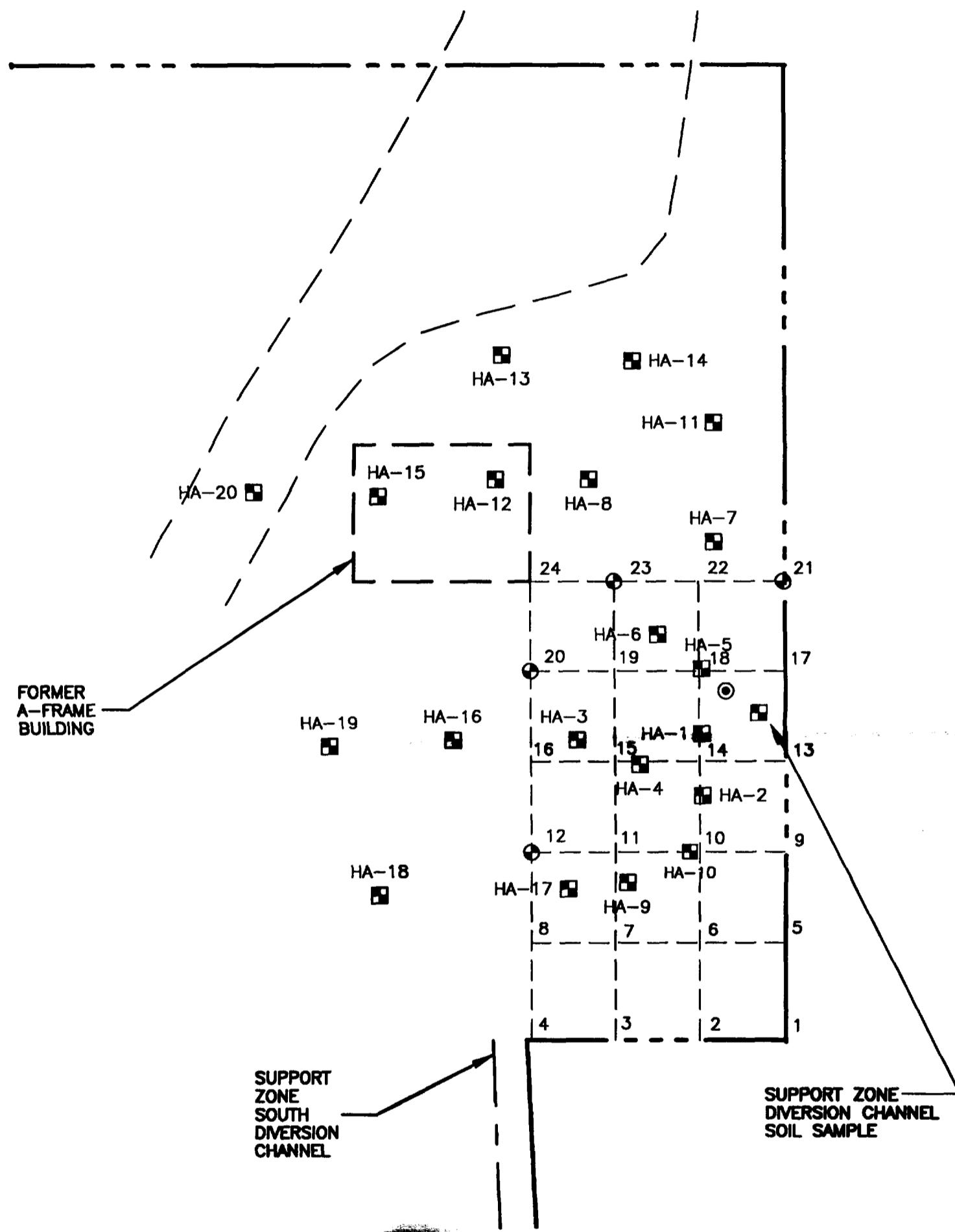
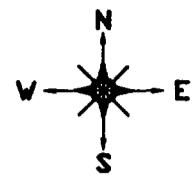
One compound, 1,1-dichloroethane, exceeded the acceptable concentration in the soil sample collected from the base of the wastewater storage pad sump excavation. Analytical results for the other soil samples collected at the wastewater storage pad and west of the sump location did not exceed the site-specific acceptable soil concentrations. Therefore, further assessment will be conducted around the east end of the wastewater storage pad adjacent to the sump by the installation of four soil borings (Figure 2-3).

The sump soil sample was previously collected from a moist sand interval at about the 5-foot depth. Therefore, the wastewater storage pad soil borings will be continuously

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sampled and advanced to a minimum depth of 8 feet. Headspace and laboratory samples will be collected at 2-foot intervals of the boring and each sample will be screened in the field for VOCs using the OVA headspace technique. At each boring a soil sample will be collected from the moist sand interval noted at about the 5-foot depth and submitted for laboratory analysis of TCL VOCs by CLP SOW OLM01.1. If the moist sand interval, which is believed to be discontinuous, is not encountered, then the soil sample collected from the 4 to 6 foot depth interval will be submitted for analysis of VOCs. In addition, a soil sample from the depth interval immediately below this sample or below the depth interval exhibiting contamination based on headspace analysis and visual inspection will be submitted for laboratory analysis of TCL VOCs by CLP SOW OLM01.1.



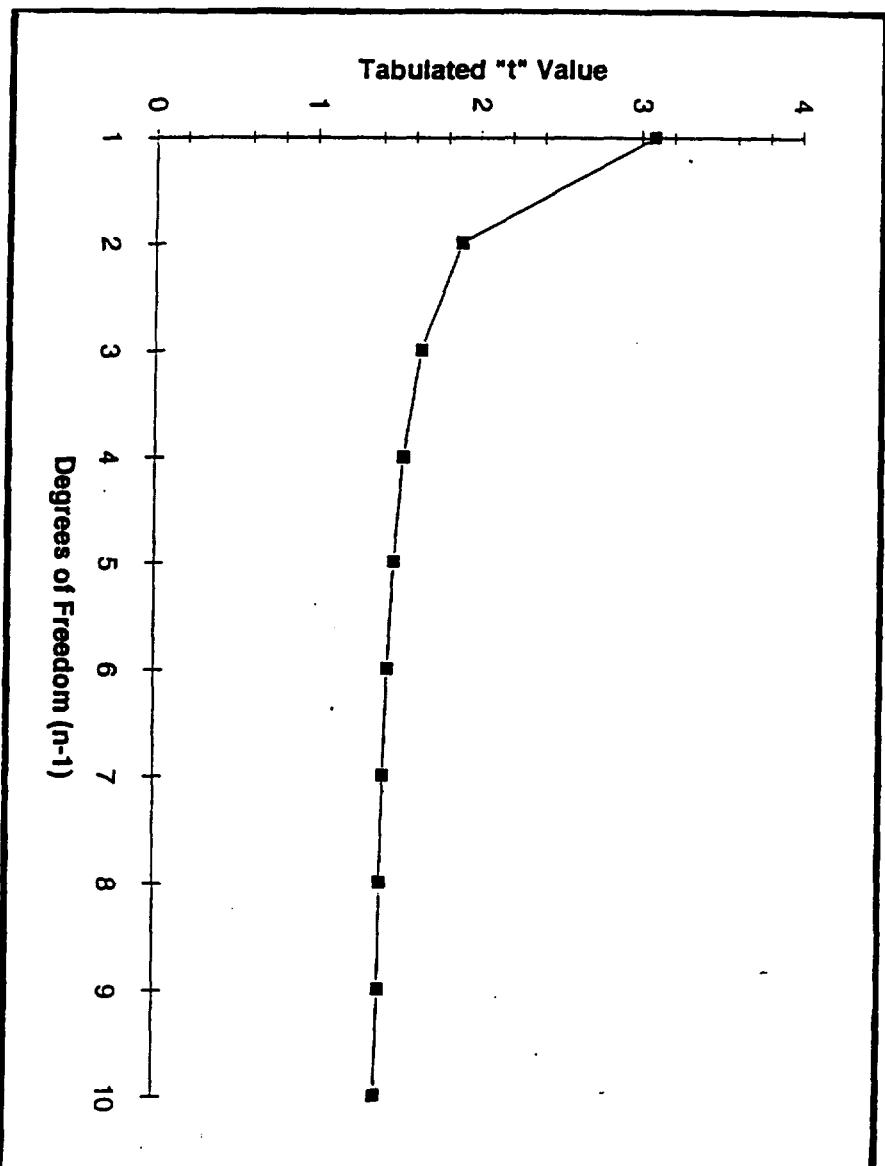
SYMBOL LEGEND	
●	APPROXIMATE LOCATION OF POTENTIAL CONTAMINATION
■	HAND AUGER INVESTIGATION SOIL SAMPLE LOCATION
○	PROPOSED SOIL BORING LOCATION
4	GRID NODE NUMBER

FIGURE 2-1
AREA OF INVESTIGATION/SOIL BORING LOCATION
AREA NORTHWEST OF CONCRETE PAD
ENVIRO-CHEM SITE
ZIONSVILLE, INDIANA

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PROJECT # 94005-0 | REPORT # PWSR | DATED 01/31/94 | APPROVED BY ENVRO-CHEM SITE, ZIONSVILLE, INDIANA



REFERENCE: TEST METHODS FOR EVALUATING SOLID WASTES-SW-846
USEPA, SEPTEMBER 1986

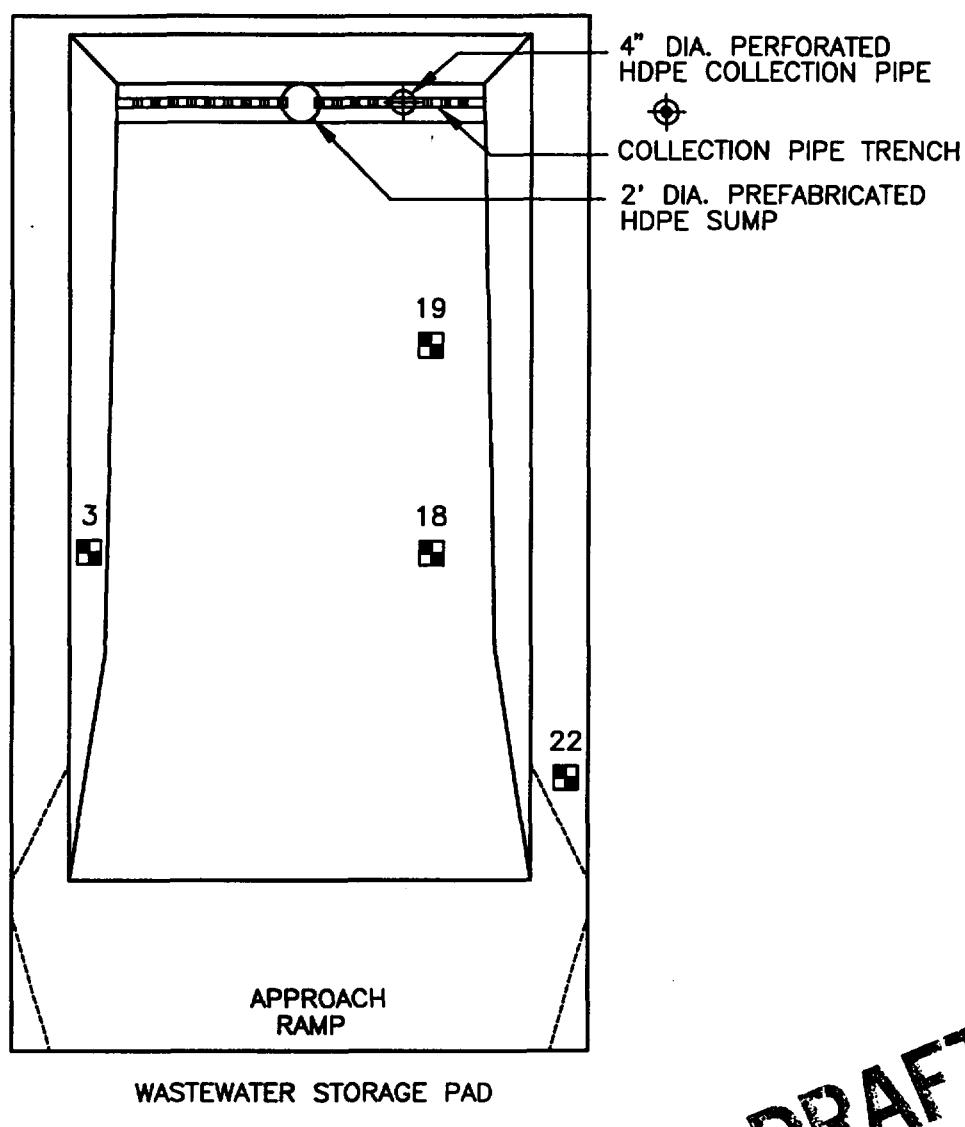
FIGURE 2-2

SW-846 TABULATED VALUES OF
STUDENT'S "T" STATISTIC FOR
EVALUATING SOLID WASTES
ENVRO-CHEM SITE
ZIONSVILLE, INDIANA

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FIGURE 2-3
SOIL BORING/SAMPLING LOCATIONS
WASTEWATER STORAGE PAD
ENVIRO-CHEM SITE
ZIONSVILLE, INDIANA

APPROX. SCALE (ft.)
 0 10

SYMBOL LEGEND	
⊕	SUMP SAMPLE LOCATION
◎	PROPOSED SOIL BORING/ SAMPLING LOCATION
■	SAMPLE LOCATION

PROJECT	REPORT
3.005-0	ENVIRON.
DATA	ENVIRON.
MAP	CLIENT
01/31/94	ENVIRO-CHEM SITE ZIONSVILLE, INDIANA

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3.0 PROCEDURES

3.1 Sample Collection

All of the samples collected during this investigation will be obtained using a truck-mounted drill rig equipped with a minimum 2-1/4-inch, inner-diameter (ID), hollow-stem auger. Prior to drilling, the aggregate and geotextile cover, if present, will be carefully removed. Samples will be continuously collected in 2-foot intervals by using a standard, split-spoon sampler. A portion from each split-spoon sample will be placed in a sample bottle, labeled with the appropriate sample designation, and placed into a cooler. Another portion will be placed in a headspace jar for field screening using the headspace screening technique. This technique consists of filling a glass jar approximately 1/3 full of soil, sealing the jar, agitating and allowing the contents of the jar to equilibrate with ambient temperature. The headspace in the jar is then tested for VOCs utilizing an OVA and the results are recorded on the borehole log.

A maximum of two soil samples from each boring will be submitted to the laboratory for VOC analysis. The samples will be selected for analysis based on the results of the headspace screening and visual inspection. During the support zone sampling, one sample will be from the interval believed to be most contaminated and one sample will be from the deepest interval of the boring. If no contamination is noted based on field observations, then only one soil sample will be submitted for analysis. During the wastewater storage pad sump evaluation, one soil sample from the moist sand interval at approximately the 5 foot depth and one soil sample from below this interval will be submitted for laboratory analysis.

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Each soil boring will be logged by a qualified geologist by describing the length of sample collected, color, grain size, sorting, composition, structure, and moisture content of the sample based on visual observations. The density of the soil will be determined by using the standard blow count method or a pocket penetrometer, and the color of the soil will be identified by comparison with a rock color chart. The geologic description for each sample interval will be recorded on a soil boring log.

Drill cuttings will be placed in clean Department of Transportation-approved 55-gallon metal drums and placed on the concrete pad in the drum storage area. All soil borings will be backfilled with bentonite chips which will be hydrated with clean potable water during installation. After backfilling of the borehole is complete, the geotextile and the aggregate, if any, will be replaced.

All of the drilling and sampling equipment will be decontaminated between borings in accordance with the procedures described in Section 3.3.

3.2 Preparation of Quality Assurance/Quality Control Samples

Quality Assurance/Quality Control (QA/QC) samples will be collected at a frequency of one duplicate for every 10 or fewer soil samples and one sample will be designated for MS/MSD analysis for every 20 or fewer soil samples. No additional soil volume is required for the samples designated for MS/MSD analysis.

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3.2.1 Field Duplicate Samples

Duplicate samples will be collected in accordance with the procedure described below:

1. The investigative sample location from which a duplicate sample will be collected will be determined.
2. The duplicate sample will be collected at the same time and location as one of the investigative samples using the same procedure outlined in the sampling procedure for samples.
3. The investigative sample containers for VOC analyses will be completely filled and sealed, and then the duplicate sample container will be filled and sealed.
4. The field notebook, labels, tags, and chain-of-custody sheets will be filled out with the duplicate sample properly designated and logged.

3.2.2 MS/MSD Samples

The investigative samples designated for MS/MSD analysis will be collected following the same procedure as other investigative samples. No extra volume required for the MS/MSD. The investigative samples selected for MS/MSD analysis will be properly designated and logged on the chain-of-custody sheets, labels, tags, and in the field

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notebook. MS/MSD samples will be preserved, handled, and shipped following the same procedures as investigative samples.

3.3 Decontamination

Drilling augers will be steam cleaned before each boring. All sampling equipment will be decontaminated prior to collection of each sample. Sampling gloves will be discarded after collecting each sample. Decontamination of field personnel will be conducted in accordance with the procedures specified in the SPMR Health and Safety Plan. Temporary exclusion zones and contamination reduction zones will be established by the On-site Coordinator. Equipment will be decontaminated either near the sample location in heat-resistant plastic tubs or on the concrete decontamination pad.

A pump will be used to remove contaminated water from the decontamination pad into drums that will be relocated to the drum storage area on the concrete pad.

Decontamination of the split spoons and other sampling equipment will be conducted according to the following procedure:

- Step 1 Steam clean or scrub equipment with a solution of Alconox or phosphate detergent mixed with potable water.
- Step 2 Rinse with potable water.
- Step 3 Rinse twice with distilled water.

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Step 4 Air dry.

Step 5 Place in clean polyethylene bag or wrap in aluminum foil with shiny side out when not in use and during transport.

3.4 Documentation

All field measurements and observations will be recorded in both a field notebook and on the soil boring logs. Field measurements will include: distances, depths, and organic vapor concentrations. Field observations will consist of: weather conditions, physical appearance of samples, description of all field tasks undertaken, and a list of all personnel on site.

3.4.1 Field Notebooks

The field notebooks will be permanently labeled with the site name, site location, internal project number, and notebook number. Phone numbers of key project personnel and safety agencies, such as the fire department, hospital, and police, will be indicated in each field notebook.

Each page in the field notebook will be numbered and dated at the time of use, and initialed at the bottom by the user. Daily entries will begin with a synopsis of weather conditions, field conditions, personnel present, and projected work tasks for the day. All field tasks completed and the status of tasks in progress will be recorded in the field notebook. Entries will include all field measurements, calibration and preventive

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maintenance of field instruments, sampling locations, type of sample, sample number, physical appearance of sample, and the names of sampling personnel. No erasing will be allowed, and corrections will be made by drawing a single line through the incorrect entry. All corrections of recorded data will be initialed and dated.

3.4.2. Soil Boring Logs

Field measurements and detailed documentation of sampling will be recorded on soil boring field data forms that will identify the site, sampling personnel, the location of the sample, and the field measurements.

As with the field notebook, any corrections on the field data forms will be made by drawing a single line through the incorrect entry and initialing and dating the correction.

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4.0 SAMPLE HANDLING AND ANALYSIS

The samples will be submitted for analysis of TCL VOCs using CLP SOW OLM01.1.

4.1 Sample Identification Label

Sample identification labels will include the following information:

- Sample Designation,
- Name of Collector,
- Affiliation of Collector,
- Date and Time of Collection,
- Requested Analysis, and
- Analysis Code.

Each sample taken during the execution of this Plan will be given a sample designation.

The sample designation will be as follows:

- EC = EnviroChem,
- B# = Soil Boring Number,
- A,B,C,.. = Depth Interval (A for 0 to 2 feet, B for 2 to 4 feet, C for 4 to 6 feet, etc.),
- S = Soil Sample, and
- D or F = D for Field Duplicate or F for Field Blank.

DRAFT

EnviroChem Site
Zionsville, Indiana
Field Sampling Plan
Revision: 0
February 1994
Page: 4-2

A duplicate soil sample collected at the 4 to 6 foot depth interval from soil boring number 2 would be labelled as "ECB02CSD". Information from the sample identification labels will be recorded in the field notebook to document all laboratory samples.

4.2 Sample Seals

If the samples are to be transported by a carrier, the cooler containing the samples will be sealed to prevent disturbance of the samples during transportation. The seal will be affixed in such a manner that it would be broken if the cooler were to be opened. Upon receipt of the samples, the laboratory will check the integrity of the seal.

4.3 Chain-of-Custody Form

To provide documentation necessary to trace sample possession from the time of collection to the time of receipt by the analytical laboratory, a chain-of-custody record will be completed and accompany each shipment of sample(s) to the laboratory. Chain-of-custody procedures are discussed in Section 4.4. A copy of the sample chain-of-custody form is included in Appendix C. Copies will be stored in the project files.

4.4 Sample Shipment and Custody Procedures

Sample custody procedures will be consistent with the USEPA Region V Guidance "Content Requirements for Quality Assurance Project Plans."

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A sample will be considered under the person's custody if it is: (1) in a person's physical possession, (2) in view of the person after taking possession, (3) secured by that person so that no one can tamper with the sample, or (4) secured by that person in an area that is restricted to authorized personnel. The sample packaging and shipment procedures summarized below will assure that the sample will arrive at the laboratory with the chain-of-custody intact.

Field procedures are as follows:

- The field sampler will be personally responsible for the care and custody of the samples until they are transferred or properly dispatched. As few people as possible will handle the samples.
- All samples will be tagged with sample numbers and locations
- Sample tags will be completed for each sample using waterproof ink unless prohibited by weather conditions.

Transfer-of-custody and shipment procedures will be as follows:

- Samples will be accompanied by a properly completed chain-of-custody form. The sample numbers and locations will be listed on the chain-of-custody form. When transferring the possession of samples, the individuals relinquishing and

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receiving will sign, date, and note the time on the records. This record documents the transfer of custody of samples from the sampler to another person, to a permanent laboratory, or to/from a secure storage area.

- Samples will be properly packaged for shipment and dispatched via overnight courier or hand delivered to the appropriate laboratory for analysis, with a separate, signed custody record enclosed in a cooler. Shipping containers will be secured with packing tape and custody seals for shipment to the laboratory.
- The original chain-of-custody record and the yellow and pink copies will accompany the shipment. The gold copy will be retained by the samplers and returned to the field office.

The specifications for chain-of-custody and document control for the analytical laboratory are discussed in the QAPP.

4.5 Analytical Procedures

Samples collected for TCL VOCs will be analyzed in accordance with USEPA's CLP protocols. All samples will be analyzed for TCL VOCs in accordance with CLP SOW OLM01.1. The requirements for precision, accuracy, completeness, representativeness, and comparability are described in the QAPP.

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4.6 Field Quality Assurance/Quality Control Procedures

The QA/QC procedures will be followed to ensure the reliability and validity of the field and analytical data obtained during the investigation.

Field QA/QC procedures include calibration of field instruments and collection of replicate samples.

Field duplicate samples will be collected at a rate of 1 for every 10 investigative samples. Field duplicate samples will be prepared as described in Section 3.2.

The On-site Coordinator will monitor and audit the performance of field QA/QC procedures by reviewing the detailed description of sample collection and field measurement procedures recorded in the field notebook to ensure that this investigation is executed in accordance with this Work Plan. Field QC will be maintained during all field activities by an experienced geologist or engineer.

4.7 Corrective Action

If a problem occurs in the field that is immediately correctable by direct action, then the On-site Coordinator will see that the action is taken. For example, if poor sampling techniques are observed when collecting a sample, the on-site supervisor will order the re-collection of a new sample and indicate the steps to be taken to prevent a reoccurrence of the problem.

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Some problems are not immediately correctable in the field. If such a problem is encountered, the on-site supervisor will contact the Engineer, who will then determine the appropriate corrective action.

4.8 Data Reduction and Validation

Analytical data reduction will be carried out by the laboratory following the procedures in CLP SOW OLM01.1. Analytical data validation will be performed in-house by the laboratory under the direction of their respective Quality Assurance (QA) officers. Additionally, the laboratory performing the analysis of the chemical parameters will critique its own analytical program by using spiked addition recoveries, established detection limits, and precision and accuracy control charts where applicable, and by keeping accurate records of the calibration of instruments as described in CLP SOW OLM01.1. Data reduction and validation is further described in the QAPP. The laboratory will provide documentation to meet the requirements of the QAPP.

The Engineer will independently validate the chemical analyses data by evaluating the attainment of the Quality Control (QC) criteria for calibration, blanks, spikes, and/or duplicate samples as outlined in CLP SOW.

*outsite
concrete
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4.9 Data Evaluation and Reporting

Field and analytical data will be evaluated, summarized and presented in a report to the USEPA seventy-five days after the completion of the field activities. Detected soil concentration will be compared with the site-specific acceptable concentrations. The report will also include a description of all field activities, analytical procedures, recommendations and proposed modifications to the location of the remedial boundary, if any.

APPENDICES

APPENDIX A

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 14-OCT-93	Project 2506	Lab ID A293253
Complete 03-NOV-93	PO Number		
Printed 03-NOV-93	Sampled 14-OCT-93 13:25		

Report To ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	BILL TO CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description DESCRIPTION: SUPP. ZONE DIVERSION CHANNEL	

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A			
Parameter	Result	Det. Limit	Units
ACETONE	BDL	100	ug/kg
ACROLEIN	BDL	250	ug/kg
ACRYLONITRILE	BDL	350	ug/kg
BENZENE	BDL	25	ug/kg
BROMODICHLOROMETHANE	BDL	25	ug/kg
Bromoform	BDL	25	ug/kg
BROMOMETHANE	BDL	50	ug/kg
CARBON DISULFIDE	BDL	25	ug/kg
CARBON TETRACHLORIDE	BDL	25	ug/kg
CHLOROBENZENE	BDL	25	ug/kg
CHLOROETHANE	BDL	50	ug/kg
CHLOROFORM	BDL	25	ug/kg
CHLOROMETHANE	BDL	50	ug/kg
DIBROMOCHLOROMETHANE	BDL	25	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	25	ug/kg
DICHLORODIFLUOROMETHANE	BDL	25	ug/kg
1,1-DICHLOROETHANE	BDL	25	ug/kg
1,2-DICHLOROETHANE	BDL	25	ug/kg
1,1-DICHLOROETHENE	BDL	25	ug/kg
1,2-DICHLOROPROPANE	BDL	25	ug/kg
ETHYLBENZENE	BDL	25	ug/kg
FLUOROTRICHLOROMETHANE	BDL	25	ug/kg
2-HEXANONE	BDL	50	ug/kg
METHYLENE CHLORIDE	42	25	ug/kg
METHYL ETHYL KETONE	BDL	50	ug/kg
1-METHYL-2-PENTANONE	BDL	50	ug/kg
STYRENE	BDL	25	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	25	ug/kg
TETRACHLOROETHENE	320	25	ug/kg
TETRAHYDROFURAN	BDL	120	ug/kg
TOLUENE	75	25	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	25	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	25	ug/kg
1,1,1-TRICHLOROETHANE	710	25	ug/kg
1,1,2-TRICHLOROETHANE	BDL	25	ug/kg

Page 1 (continued on next page)

HERITAGE LABORATORIES, INC.

Parameter	Result	Det. Limit	Units
TRICHLOROETHENE	73	25	ug/kg
VINYL ACETATE	BDL	50	ug/kg
VINYL CHLORIDE	BDL	50	ug/kg
XYLENE (TOTAL)	BDL	25	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	95		% Rec
TOLUENE-D8	104		% Rec
BROMOFLUOROBENZENE	98		% Rec
1:5 DILUTION.			

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 10936.

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RR 1, BOX 555, ROCKVILLE, IN 47872

Quality Assurance Officer:

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293253

L I S T O F C O M P L E T E D T A S K S

GC/MS CLP GC/MS CLP

Completed 03-NOV-93

C E R T I F I C A T E O F A N A L Y S I S

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	28-OCT-93	2506	A294793
	Complete	PO Number	
	08-NOV-93	
	Printed	Sampled	
	09-NOV-93	19-OCT-93 16:30	

Report To	Bill To
ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description	
DESCRIPTION: HA-3 (0.5-1.0')	
LOCATION: ENVIROCHEM - SITE PREP & MATERIAL REMOVAL	

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A

Analyst: G. WILSON Analyst Date: 01-NOV-93 11:05 Instrument: GC/MS VOA

Test: OS10.9.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/kg
ACROLEIN	BDL	50	ug/kg
ACRYLONITRILE	BDL	70	ug/kg
BENZENE	BDL	5	ug/kg
BROMODICHLOROMETHANE	BDL	5	ug/kg
Bromoform	BDL	5	ug/kg
BROMOMETHANE	BDL	10	ug/kg
CARBON DISULFIDE	BDL	5	ug/kg
CARBON TETRACHLORIDE	BDL	5	ug/kg
CHLOROBENZENE	BDL	5	ug/kg
CHLOROETHANE	BDL	10	ug/kg
CHLOROFORM	BDL	5	ug/kg
CHLORMETHANE	BDL	10	ug/kg
DIBROMOCHLOROMETHANE	BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
DICHLORODIFLUOROMETHANE	BDL	5	ug/kg
1,1-DICHLOROETHANE	BDL	5	ug/kg
1,2-DICHLOROETHANE	BDL	5	ug/kg
1,1-DICHLOROETHENE	BDL	5	ug/kg
1,2-DICHLOROPROPANE	BDL	5	ug/kg
ETHYLBENZENE	BDL	5	ug/kg
FLUOROTRICHLOROMETHANE	BDL	5	ug/kg
2-HEXANONE	BDL	10	ug/kg
METHYLENE CHLORIDE	8	5	ug/kg
METHYL ETHYL KETONE	BDL	10	ug/kg
4-METHYL-2-PENTANONE	BDL	10	ug/kg
STYRENE	BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/kg
TETRACHLOROETHENE	BDL	5	ug/kg
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	20	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	74	5	ug/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A294793

Parameter	Result	Det. Limit	Units
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	21	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	BDL	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	111		% Rec
TOLUENE-D8	98		% Rec
BROMOFLUOROBENZENE	103		% Rec

Sample reanalyzed with no improvement in internal standard areas.

BDL Below Detection Limit

Sample Comments

Sample chain of custody number 13243.

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Quality Assurance Officer:

J.A.Busch

Page 2 (last page)

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 29-OCT-93	Project 2506	Lab ID A295096
	Complete 11-NOV-93	PO Number 9311001-RJA	
	Printed 11-NOV-93	Sampled	
			29-OCT-93 14:25

Report To	Bill To
ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description	
DESCRIPTION: HA-16 (1.5-2.0')	

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A

Analyst: G. WILSON

Analysis Date: 04-NOV-93 06:10 Instrument: GC/MS VOA

Test: 0510.9.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/kg
ACROLEIN	BDL	50	ug/kg
ACRYLONITRILE	BDL	70	ug/kg
BENZENE	BDL	5	ug/kg
BROMODICHLOROMETHANE	BDL	5	ug/kg
BROMOFORM	BDL	5	ug/kg
BROMOMETHANE	BDL	10	ug/kg
CARBON DISULFIDE	BDL	5	ug/kg
CARBON TETRACHLORIDE	BDL	5	ug/kg
CHLOROBENZENE	BDL	5	ug/kg
CHLOROETHANE	BDL	10	ug/kg
CHLOROFORM	BDL	5	ug/kg
CHLOROMETHANE	BDL	10	ug/kg
DIBROMOCHLOROMETHANE	BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
DICHLORODIFLUOROMETHANE	BDL	5	ug/kg
1,1-DICHLOROETHANE	BDL	5	ug/kg
1,2-DICHLOROETHANE	BDL	5	ug/kg
1,1-DICHLOROETHENE	BDL	5	ug/kg
1,2-DICHLOROPROPANE	BDL	5	ug/kg
ETHYLBENZENE	BDL	5	ug/kg
FLUOROTRICHLOROMETHANE	BDL	5	ug/kg
2-HEXANONE	BDL	10	ug/kg
METHYLENE CHLORIDE	5	5	ug/kg
METHYL ETHYL KETONE	BDL	10	ug/kg
4-METHYL-2-PENTANONE	BDL	10	ug/kg
STYRENE	BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/kg
TETRACHLOROETHENE	BDL	5	ug/kg
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	6	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	11	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A295096

Parameter	Result	Det. Limit	Units
TRICHLOROETHENE	7	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	BDL	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	94		% Rec
TOLUENE-D8	103		% Rec
BROMOFLUOROBENZENE	92		% Rec

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 14434.

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Quality Assurance Officer:



Page 2 (last page)

HERITAGE LABORATORIES, INC.

Lab Sample ID: A295096

L I S T O F C O M P L E T E D T A S K S

GC/MS CLP GC/MS CLP

Completed 11-NOV-93

APPENDIX B

C E R T I F I C A T E O F A N A L Y S I S

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	21-OCT-93	2506	A293855
	Complete	PO Number	
	12-NOV-93	9311001-RJA	
	Printed	Sampled	
	12-NOV-93	18-OCT-93 12:50	

Report To	Bill To
ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description	
SAMPLE ID: WWP-SUMP DESCRIPTION: WASTEWATER STORAGE PAD	

TOTAL SOLIDS EPA 160.3

Analyst: B. PRIDMORE Analysis Date: 22-OCT-93

Test: G401:7.0

Parameter	Result	Det. Limit	Units
SOLIDS	81	0.001	Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A

Analyst: G. WILSON Analysis Date: 25-OCT-93 14:25 Instrument: GC/MS VOA

Test: G510:9.0

Parameter	Result	Det. Limit	Units
ACETONE	75	20	ug/kg
ACROLEIN	BDL	50	ug/kg
ACRYLONITRILE	BDL	70	ug/kg
BENZENE	6	5	ug/kg
BROMODICHLOROMETHANE	BDL	5	ug/kg
BROMOFORM	BDL	5	ug/kg
BROMOMETHANE	BDL	10	ug/kg
CARBON DISULFIDE	BDL	5	ug/kg
CARBON TETRACHLORIDE	BDL	5	ug/kg
CHLOROBENZENE	BDL	5	ug/kg
CHLOROETHANE	32	10	ug/kg
CHLOROFORM	BDL	5	ug/kg
CHLORMETHANE	BDL	10	ug/kg
DIBROMOCHLOROMETHANE	BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
DICHLORODIFLUOROMETHANE	BDL	5	ug/kg
1,1-DICHLOROETHANE	15	5	ug/kg
1,2-DICHLOROETHANE	BDL	5	ug/kg
1,1-DICHLOROETHENE	BDL	5	ug/kg
1,2-DICHLOROPROPANE	BDL	5	ug/kg
ETHYLBENZENE	EST 290	5	ug/kg
FLUOROTRICHLOROMETHANE	BDL	5	ug/kg
2-HEXANONE	BDL	10	ug/kg
METHYLENE CHLORIDE	7	5	ug/kg
METHYL ETHYL KETONE	BDL	10	ug/kg
4-METHYL-2-PENTANONE	BDL	10	ug/kg
STYRENE	BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/kg
TETRACHLOROETHENE	BDL	5	ug/kg

Parameter	Result	Det. Limit	Units
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	25	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	34	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	6	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	100	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	113		% Rec
TOLUENE-D8	108		% Rec
BROMOFLUOROBENZENE	95		% Rec

Dilution necessary due to high concentration of target compounds.

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A

Analyst: G. WILSON

Analysis Date: 27-OCT-93 06:19 Instrument: GC/MS VOA

Test: 0510.9.1

Parameter	Result	Det. Limit	Units
ACETONE	BDL	100	ug/kg
ACROLEIN	BDL	250	ug/kg
ACRYLONITRILE	BDL	350	ug/kg
BENZENE	BDL	25	ug/kg
BROMODICHLOROMETHANE	BDL	25	ug/kg
BROMOFORM	BDL	25	ug/kg
BROMOMETHANE	BDL	50	ug/kg
CARBON DISULFIDE	BDL	25	ug/kg
CARBON TETRACHLORIDE	BDL	25	ug/kg
CHLOROBENZENE	BDL	25	ug/kg
CHLOROETHANE	BDL	50	ug/kg
CHLOROFORM	BDL	25	ug/kg
CHLOROMETHANE	BDL	50	ug/kg
DIBROMOCHLOROMETHANE	BDL	25	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	25	ug/kg
DICHLORODIFLUOROMETHANE	BDL	25	ug/kg
1,1-DICHLOROETHANE	BDL	25	ug/kg
1,2-DICHLOROETHANE	BDL	25	ug/kg
1,1-DICHLOROETHENE	BDL	25	ug/kg
1,2-DICHLOROPROPANE	BDL	25	ug/kg
ETHYL BENZENE	330	25	ug/kg
TRICHLOROFLUOROMETHANE	BDL	25	ug/kg
2-HEXANONE	BDL	50	ug/kg
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	25	ug/kg
METHYL ETHYL KETONE	BDL	50	ug/kg
4-METHYL-2-PENTANONE	BDL	50	ug/kg
STYRENE	BDL	25	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	25	ug/kg
TETRACHLOROETHENE	BDL	25	ug/kg
TETRAHYDROFURAN	BDL	120	ug/kg
TOLUENE	BDL	25	ug/kg
1,2-DICHLOROETHENE (CIS AND TRANS)	BDL	25	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	25	ug/kg
1,1,1-TRICHLOROETHANE	BDL	25	ug/kg
1,1,2-TRICHLOROETHANE	BDL	25	ug/kg

Parameter	Result	Det. Limit	Units
TRICHLOROETHENE	BDL	25	ug/kg
VINYL ACETATE	BDL	50	ug/kg
VINYL CHLORIDE	BDL	50	ug/kg
XYLENES (O/M/P-XYLENE)	360	25	ug/kg
... SURROGATE RECOVERY			
DICHLOROETHANE-D4	99	% Rec	
TOLUENE-D8	97	% Rec	
4-BROMOFLUOROBENZENE	101	% Rec	
1:5 DILUTION.			

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: C. KING

Analysis Date: 25-OCT-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: J. MINNIEAR, II

Analysis Date: 26-OCT-93 23:34 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalate	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	EST 180	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHthalate	BDL	330	ug/kg
DIMETHYLPHthalate	BDL	330	ug/kg
DI-N-BUTYLPHthalate	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalate	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	56		% Rec
PHENOL-D5	59		% Rec
NITROBENZENE-D5	67		% Rec
2-FLUOROBIPHENYL	71		% Rec
2,4,6-TRIBROMOPHENOL	57		% Rec
TERPHENYL-D14	71		% Rec

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS Analysis Date: 29-OCT-93 Instrument: GC/ECD
 Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Test: Q305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg

Parameter	Result	Det. Limit	Units
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	92.6		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN

Analysis Date: 25-OCT-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	40.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
CADMUM	BDL	0.50	mg/kg

CHROMIUM ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	11.	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M116.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	9.0	5.0	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293855

SILVER ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: GFAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. CARDWELL Analysis Date: 25-OCT-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		ml

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN Analysis Date: 05-NOV-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		ml

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 08-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Test: M103.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	2.7	1.0	mg/kg
<i>1:2 DILUTION</i>			

SELENIUM GFAA SW846-7740

Analyst: W. WATNESS Analysis Date: 05-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.50	mg/kg

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: J. WALLACE Analysis Date: 01-NOV-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		ml

MERCURY CVAA SW846-7471(MOD)

Analyst: G. HAPP Analysis Date: 03-NOV-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.050	mg/kg

Sample Comments

BDL Below Detection Limit
 EST Estimated Value

Sample chain of custody number 14431.

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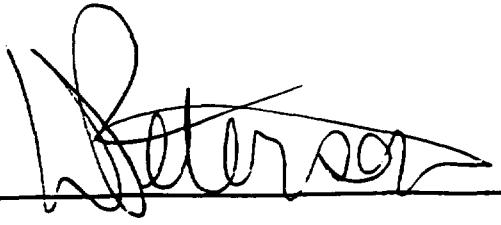
Additional copies of this report sent to:
 CHARLES JACKSON, QUALITY ENVIRONMENTAL MANAGEMENT
 RR 1, BOX 555, ROCKVILLE, IN 47872

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293855

Sample Comments

Quality Assurance Officer:



Peter J. Rector

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 21-OCT-93	Project 2506	Lab ID A293856
	Complete 12-NOV-93	PO Number 9311001-RJA	
	Printed 12-NOV-93	Sampled	
			21-OCT-93 13:40

Report To	Bill To
ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description	
SAMPLE ID: WWP-3 DESCRIPTION: WASTEWATER STORAGE PAD	

TOTAL SOLIDS EPA 160.3		Test: G401.7.0
Analyst: B. PRIDMORE	Analysis Date: 22-OCT-93	
Parameter	Result	Det. Limit
SOLIDS	89	0.001
		Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A		Test: OS10.9.0
Analyst: G. WILSON	Analysis Date: 03-NOV-93 07:09	Instrument: GC/MS VOA
Parameter	Result	Det. Limit
ACETONE	BDL	20
ACROLEIN	BDL	50
ACRYLONITRILE	BDL	70
BENZENE	BDL	5
BROMODICHLOROMETHANE	BDL	5
BROMOFORM	BDL	5
BROMOMETHANE	BDL	10
CARBON DISULFIDE	BDL	5
CARBON TETRACHLORIDE	BDL	5
CHLOROBENZENE	BDL	5
CHLOROETHANE	BDL	10
CHLOROFORM	BDL	5
CHLOROMETHANE	BDL	10
DIBROMOCHLOROMETHANE	BDL	5
CIS-1,3-DICHLOROPROPENE	BDL	5
DICHLORODIFLUOROMETHANE	BDL	5
1,1-DICHLOROETHANE	BDL	5
1,2-DICHLOROETHANE	BDL	5
1,1-DICHLOROETHENE	BDL	5
1,2-DICHLOROPROPANE	BDL	5
ETHYLBENZENE	BDL	5
FLUOROTRICHLOROMETHANE	BDL	5
2-HEXANONE	BDL	10
METHYLENE CHLORIDE	11	5
METHYL ETHYL KETONE	BDL	10
4-METHYL-2-PENTANONE	BDL	10
STYRENE	BDL	5
1,1,2,2-TETRACHLOROETHANE	BDL	5
TETRACHLOROETHENE	BDL	5

Parameter	Result	Det. Limit	Units
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	16	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	73	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	32	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	BDL	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	102		% Rec
TOLUENE-D8	104		% Rec
BROMOFLUOROBENZENE	100		% Rec

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: C. KING

Analysis Date: 25-OCT-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: J. MINNIEAR, II

Analysis Date: 27-OCT-93 00:26 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalate	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHthalate	BDL	330	ug/kg
DIMETHYLPHthalate	BDL	330	ug/kg
DI-N-BUTYLPHthalate	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	55		% Rec
PHENOL-D5	58		% Rec
NITROBENZENE-D5	74		% Rec
2-FLUOROBIPHENYL	72		% Rec
2,4,6-TRIBROMOPHENOL	49		% Rec
TERPHENYL-D14	84		% Rec

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293856

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS

Analysis Date: 29-OCT-93 Instrument: GC/ECD

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Test: Q305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	79.2		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN

Analysis Date: 25-OCT-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	40.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293856

CHROMIUM ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
CHROMIUM	8.9	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M116.3.0

Parameter	Result	Det. Limit	Units
LEAD	8.8	5.0	mg/kg

SILVER ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. CARDWELL Analysis Date: 25-OCT-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		
FINAL WEIGHT OR VOLUME	100		Grams mL

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN Analysis Date: 05-NOV-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 08-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Test: M103.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	4.6	2.0	mg/kg
<i>1:4 DILUTION</i>			

SELENIUM GFAA SW846-7740

Analyst: W. WATNESS Analysis Date: 05-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.50	mg/kg

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: J. WALLACE Analysis Date: 01-NOV-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471(MOD)

Analyst: G. HAPP Analysis Date: 03-NOV-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.050	mg/kg

BDL Below Detection Limit

Sample Comments

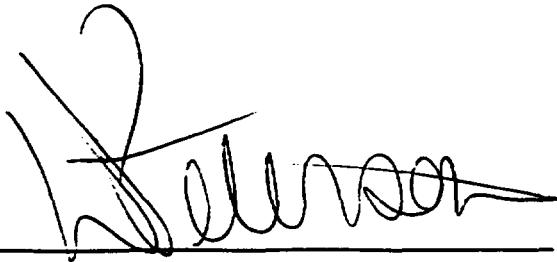
Sample chain of custody number 14431.

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RR 1, BOX 555, ROCKVILLE, IN 47872

Quality Assurance Officer:



C E R T I F I C A T E O F A N A L Y S I S

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	21-OCT-93	2506	A293858
	Complete	PO Number	
	12-NOV-93	9311001-RJA	
	Printed	Sampled	
	12-NOV-93	21-OCT-93 14:10	

Report To	Bill To
ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description	
SAMPLE ID: WWP-18 DESCRIPTION: WASTEWATER STORAGE PAD	

TOTAL SOLIDS EPA 160.3		Test: G401.7.0	
Analyst: B. PRIDEMORE			
Parameter	Result	Det. Limit	Units
SOLIDS	86	0.001	Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A		Test: OS10.9.d	
Analyst: G. WILSON		Instrument: GC/MS VOA	
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/kg
ACROLEIN	BDL	50	ug/kg
ACRYLONITRILE	BDL	70	ug/kg
BENZENE	BDL	5	ug/kg
BROMODICHLOROMETHANE	BDL	5	ug/kg
BROMOFORM	BDL	5	ug/kg
BROMOMETHANE	BDL	10	ug/kg
CARBON DISULFIDE	BDL	5	ug/kg
CARBON TETRACHLORIDE	BDL	5	ug/kg
CHLOROBENZENE	BDL	5	ug/kg
CHLOROETHANE	BDL	10	ug/kg
CHLOROFORM	BDL	5	ug/kg
CHLORMETHANE	BDL	10	ug/kg
DIBROMOCHLOROMETHANE	BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
DICHLORODIFLUOROMETHANE	BDL	5	ug/kg
1,1-DICHLOROETHANE	BDL	5	ug/kg
1,2-DICHLOROETHANE	BDL	5	ug/kg
1,1-DICHLOROETHENE	BDL	5	ug/kg
1,2-DICHLOROPROPANE	BDL	5	ug/kg
ETHYLBENZENE	BDL	5	ug/kg
FLUOROTRICHLOROMETHANE	BDL	5	ug/kg
2-HEXANONE	BDL	10	ug/kg
METHYLENE CHLORIDE	7	5	ug/kg
METHYL ETHYL KETONE	BDL	10	ug/kg
4-METHYL-2-PENTANONE	BDL	10	ug/kg
STYRENE	BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/kg
TETRACHLOROETHENE	BDL	5	ug/kg

Parameter	Result	Det. Limit	Units
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	BDL	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	27	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	7	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	BDL	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	98	% Rec	
TOLUENE-D8	106	% Rec	
BROMOFLUOROBENZENE	101	% Rec	

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: C. KING

Analysis Date: 25-OCT-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: J. MINNIEAR, II Analysis Date: 27-OCT-93 01:19 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalate	BDL	330	ug/kg
BIS(2-CHLOROETHoxy)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLORoisopropyl)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENylether	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLORoANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENylether	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
I,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHthalate	BDL	330	ug/kg
DIMETHYLPHthalate	BDL	330	ug/kg
DI-N-BUTYLPHthalate	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	49		% Rec
PHENOL-D5	50		% Rec
NITROBENZENE-D5	67		% Rec
2-FLUOROBIPHENYL	62		% Rec
2,4,6-TRIBROMOPHENOL	38		% Rec
TERPHENYL-D14	68		% Rec

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293858

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS

Analysis Date: 29-OCT-93 Instrument: GC/ECD

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Test: Q305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	81.6		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN

Analysis Date: 25-OCT-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	46.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293858

CHROMIUM ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
CHROMIUM	9.7	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M116.3.0

Parameter	Result	Det. Limit	Units
LEAD	12.	5.0	mg/kg

SILVER ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. CARDWELL Analysis Date: 25-OCT-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN Analysis Date: 05-NOV-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 08-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Test: M103.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	4.4	2.0	mg/kg
<i>1:4 DILUTION</i>			

SELENIUM GFAA SW846-7740

Analyst: W. WATNESS Analysis Date: 05-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.50	mg/kg

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: J. WALLACE Analysis Date: 01-NOV-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 03-NOV-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.050	mg/kg

Sample Comments

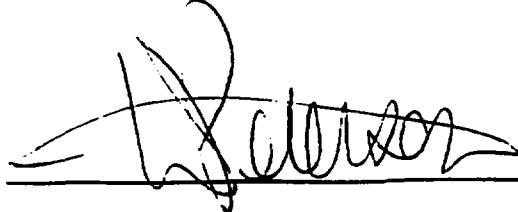
BDL Below Detection Limit

Sample chain of custody number 14431.

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RR 1, BOX 555, ROCKVILLE, IN 47872**



C E R T I F I C A T E O F A N A L Y S I S

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	21-OCT-93	2506	A293859
	Complete	PO Number	
	12-NOV-93	9311001-RJA	
	Printed	Sampled	
	12-NOV-93	21-OCT-93 14:35	

Report To

ROBERT J. AUTIO
QUALITY ENVIRONMENTAL MANAGEMENT
1640 STRICKLAND
MARTINSVILLE, IN 46151

Bill To

CHARLES JACKSON
QUALITY ENVIRONMENTAL MANAGEMENT
RR 1, BOX 555
ROCKVILLE, IN 47872

Sample Description

SAMPLE ID: WWP-19
DESCRIPTION: WASTEWATER STORAGE PAD

TOTAL SOLIDS EPA 160.3

Analyst: B. PRIDEMORE Analysis Date: 22-OCT-93

Test: G401.7.0

Parameter	Result	Det. Limit	Units
SOLIDS	81	0.001	Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A

Analyst: G. WILSON Analysis Date: 03-NOV-93 05:29 Instrument: GC/MS VOA

Test: 0510.9.0

Parameter	Result	Det. Limit	Units
ACETONE	65	20	ug/kg
ACROLEIN	BDL	50	ug/kg
ACRYLONITRILE	BDL	70	ug/kg
BENZENE	BDL	5	ug/kg
BROMODICHLOROMETHANE	BDL	5	ug/kg
BROMOFORM	BDL	5	ug/kg
BROMOMETHANE	BDL	10	ug/kg
CARBON DISULFIDE	BDL	5	ug/kg
CARBON TETRACHLORIDE	BDL	5	ug/kg
CHLOROBENZENE	BDL	5	ug/kg
CHLOROETHANE	BDL	10	ug/kg
CHLOROFORM	BDL	5	ug/kg
CHLOROMETHANE	BDL	10	ug/kg
DIBROMOCHLOROMETHANE	BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
DICHLORODIFLUOROMETHANE	BDL	5	ug/kg
1,1-DICHLOROETHANE	BDL	5	ug/kg
1,2-DICHLOROETHANE	BDL	5	ug/kg
1,1-DICHLOROETHENE	BDL	5	ug/kg
1,2-DICHLOROPROPANE	BDL	5	ug/kg
ETHYLBENZENE	BDL	5	ug/kg
FLUOROTRICHLOROMETHANE	BDL	5	ug/kg
2-HEXANONE	BDL	10	ug/kg
METHYLENE CHLORIDE	8	5	ug/kg
METHYL ETHYL KETONE	BDL	10	ug/kg
4-METHYL-2-PENTANONE	BDL	10	ug/kg
STYRENE	BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/kg
TETRACHLOROETHENE	BDL	5	ug/kg

Parameter	Result	Det. Limit	Units
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	10	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	28	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	10	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	BDL	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	103		% Rec
TOLUENE-D8	105		% Rec
BROMOFLUOROBENZENE	104		% Rec

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: C. KING

Analysis Date: 25-OCT-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: G. HUGHS

Analysis Date: 28-OCT-93 12:12 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHthalate	BDL	330	ug/kg
DIMETHYLPHthalate	BDL	330	ug/kg
DI-N-BUTYLPHthalate	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	80		% Rec
PHENOL-D5	72		% Rec
NITROBENZENE-D5	66		% Rec
2-FLUOROBIPHENYL	69		% Rec
2,4,6-TRIBROMOPHENOL	64		% Rec
TERPHENYL-D14	74		% Rec

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293859

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS

Analysis Date: 29-OCT-93

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	91		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN

Analysis Date: 25-OCT-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	76.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: M. JAO

Analysis Date: 27-OCT-93 11:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293859

CHROMIUM ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
CHROMIUM	16.	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M116.3.0

Parameter	Result	Det. Limit	Units
LEAD	12.	5.0	mg/kg

SILVER ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. CARDWELL Analysis Date: 25-OCT-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN Analysis Date: 05-NOV-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 08-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Test: M103.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	5.8	2.0	mg/kg
<i>1:4 DILUTION</i>			

SELENIUM GFAA SW846-7740

Analyst: W. WATNESS Analysis Date: 05-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.50	mg/kg

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: J. WALLACE Analysis Date: 01-NOV-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 03-NOV-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.050	mg/kg

BDL Below Detection Limit

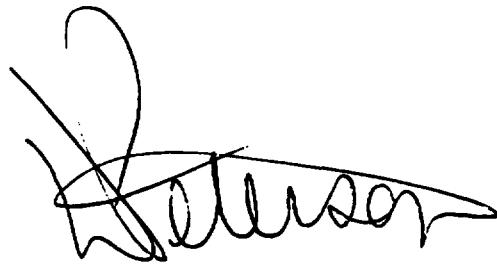
Sample Comments

Sample chain of custody number 14431.

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Additional copies of this report sent to:

CHARLES JACKSON, QUALITY ENVIRONMENTAL MANAGEMENT
RR 1, BOX 555, ROCKVILLE, IN 47872



C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 21-OCT-93	Project 2506	Lab ID A293860
	Complete 18-NOV-93	PO Number 9311001-RJA	
	Printed 18-NOV-93	Sampled	
			21-OCT-93 14:55

Report To

Bill To

ROBERT J. AUTO
QUALITY ENVIRONMENTAL MANAGEMENT
1640 STRICKLAND
MARTINSVILLE, IN 46151

CHARLES JACKSON
QUALITY ENVIRONMENTAL MANAGEMENT
RR 1, BOX 555
ROCKVILLE, IN 47872

Sample Description

SAMPLE ID: WWP-22
DESCRIPTION: WASTEWATER STORAGE PAD

TOTAL SOLIDS EPA 160.3

Analyst: B. PRIDEMORE

Analysis Date: 22-OCT-93

Test: G401.7.0

Parameter	Result	Det. Limit	Units
SOLIDS	88	0.001	Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A

Analyst: G. WILSON

Analysis Date: 04-NOV-93 05:22 Instrument: GC/MS VOA

Test: 0510.9.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/kg
ACROLEIN	BDL	50	ug/kg
ACRYLONITRILE	BDL	70	ug/kg
BENZENE	BDL	5	ug/kg
BROMODICHLOROMETHANE	BDL	5	ug/kg
BROMOFORM	BDL	5	ug/kg
BROMOMETHANE	BDL	10	ug/kg
CARBON DISULFIDE	BDL	5	ug/kg
CARBON TETRACHLORIDE	BDL	5	ug/kg
CHLOROBENZENE	BDL	5	ug/kg
CHLOROETHANE	BDL	10	ug/kg
CHLOROFORM	BDL	5	ug/kg
CHLOROMETHANE	BDL	10	ug/kg
DIBROMOCHLOROMETHANE	BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
DICHLORODIFLUOROMETHANE	BDL	5	ug/kg
1,1-DICHLOROETHANE	BDL	5	ug/kg
1,2-DICHLOROETHANE	BDL	5	ug/kg
1,1-DICHLOROETHENE	BDL	5	ug/kg
1,2-DICHLOROPROPANE	BDL	5	ug/kg
ETHYLBENZENE	BDL	5	ug/kg
FLUOROTRICHLOROMETHANE	BDL	5	ug/kg
2-HEXANONE	BDL	10	ug/kg
METHYLENE CHLORIDE	BDL	5	ug/kg
METHYL ETHYL KETONE	BDL	10	ug/kg
4-METHYL-2-PENTANONE	BDL	10	ug/kg
STYRENE	BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/kg
TETRACHLOROETHENE	BDL	5	ug/kg

Parameter	Result	Det. Limit	Units
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	6	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	28	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	9	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	BDL	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	93		% Rec
TOLUENE-D8	106		% Rec
BROMOFLUOROBENZENE	103		% Rec

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: C. KING

Analysis Date: 25-OCT-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: J. MINNIEAR, II

Analysis Date: 27-OCT-93 03:04 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalate	BDL	330	ug/kg
BIS(2-CHLOROETHoxy)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLORoisopROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENylether	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLORANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENylether	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHthalate	BDL	330	ug/kg
DIMETHYLPHthalate	BDL	330	ug/kg
DI-N-BUTYLPHthalate	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg

Parameter	Result	Det. Limit	Units
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	56		% Rec
PHENOL-D5	57		% Rec
NITROBENZENE-D5	74		% Rec
2-FLUOROBIPHENYL	66		% Rec
2,4,6-TRIBROMOPHENOL	41		% Rec
TERPHENYL-D14	76		% Rec

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293860

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS Analysis Date: 29-OCT-93 Instrument: GC/ECD
 Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Test: 0305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	82.6		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN Analysis Date: 25-OCT-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M104.3.0

Parameter	Result	Det. Limit	Units
BARIUM	37.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M108.3.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293860

CHROMIUM ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
CHROMIUM	7.8	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M116.3.0

Parameter	Result	Det. Limit	Units
LEAD	8.2	5.0	mg/kg

SILVER ICP SW846-6010A

Analyst: M. JAO Analysis Date: 27-OCT-93 11:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. CARDWELL Analysis Date: 25-OCT-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN Analysis Date: 05-NOV-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 08-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Test: M105.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	4.8	2.0	mg/kg

1:4 DILUTION

SELENIUM GFAA SW846-7740

Analyst: W. WATNESS Analysis Date: 05-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.50	mg/kg

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: J. WALLACE Analysis Date: 01-NOV-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471(MOD)

Analyst: G. HAPP Analysis Date: 03-NOV-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.050	mg/kg

Sample Comments

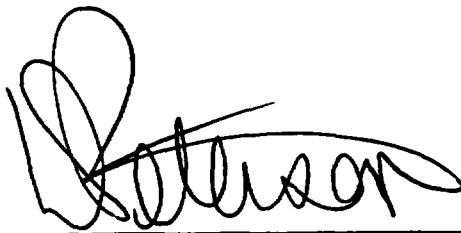
BDL Below Detection Limit

Sample chain of custody number 14431.

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CHARLES JACKSON, QUALITY ENVIRONMENTAL MANAGEMENT
RR 1, BOX 555, ROCKVILLE, IN 47872

Quality Assurance Officer:



Page 6 (last page)

L I S T O F C O M P L E T E D T A S K S

GC/MS CLP GC/MS CLP
GC CLP GC CLP
MTO CLP METALS CLP REPORT PACKAGE

Completed 12-NOV-93
Completed 04-NOV-93
Completed 10-NOV-93

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 21-OCT-93	Project 2506	Lab ID A293865
	Complete 12-NOV-93	PO Number 9311001-RJA	
	Printed 18-NOV-93	Sampled	
			21-OCT-93 15:25

Report To ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	Billing To CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description SAMPLE ID: EQUIP BLANK DESCRIPTION: DI WATER	

VOLATILE ORGANICS SW846-8240A

Analyst: R. SHAMP

Analysis Date: 27-OCT-93 16:53 Instrument: GC/MS VOA

Test: 0510.3.0

Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/L
ACROLEIN	BDL	50	ug/L
ACRYLONITRILE	BDL	70	ug/L
BENZENE	BDL	5	ug/L
BROMODICHLOROMETHANE	BDL	5	ug/L
BROMOFORM	BDL	5	ug/L
BROMOMETHANE	BDL	10	ug/L
CARBON DISULFIDE	BDL	5	ug/L
CARBON TETRACHLORIDE	BDL	5	ug/L
CHLOROBENZENE	BDL	5	ug/L
CHLOROETHANE	BDL	10	ug/L
CHLOROFORM	BDL	5	ug/L
CHLOROMETHANE	BDL	10	ug/L
DIBROMOCHLOROMETHANE	BDL	5	ug/L
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/L
DICHLORODIFLUOROMETHANE	BDL	5	ug/L
1,1-DICHLOROETHANE	BDL	5	ug/L
1,2-DICHLOROETHANE	BDL	5	ug/L
1,1-DICHLOROETHENE	BDL	5	ug/L
1,2-DICHLOROPROPANE	BDL	5	ug/L
ETHYL BENZENE	BDL	5	ug/L
TRICHLOROFLUOROMETHANE	BDL	5	ug/L
2-HEXANONE	BDL	10	ug/L
DICHLOROMETHANE (METHYLENE CHLORIDE)	BDL	5	ug/L
METHYL ETHYL KETONE	BDL	10	ug/L
4-METHYL-2-PENTANONE	BDL	10	ug/L
STYRENE	BDL	5	ug/L
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/L
TETRACHLOROETHENE	BDL	5	ug/L
TETRAHYDROFURAN	BDL	25	ug/L
TOLUENE	BDL	5	ug/L
1,2-DICHLOROETHENE (CIS AND TRANS)	BDL	5	ug/L
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/L
I,I,I-TRICHLOROETHANE	BDL	5	ug/L

Parameter	Result	Det. Limit	Units
1,1,2-TRICHLOROETHANE	BDL	5	ug/L
TRICHLOROETHENE	BDL	5	ug/L
VINYL ACETATE	BDL	10	ug/L
VINYL CHLORIDE	BDL	10	ug/L
XYLENES (O/M/P-XYLENE)	BDL	5	ug/L
SURROGATE RECOVERY			
DICHLOROETHANE-D4	97		% Rec
TOLUENE-D8	100		% Rec
4-BROMOFLUOROBENZENE	98		% Rec

On this instrument, packed column has been replaced by capillary column with 8240 criteria.

GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510A

Analyst: M. FRANK

Analysis Date: 26-OCT-93

Test: P233.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000		mL
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: G. HUGHS

Analysis Date: 27-OCT-93 15:15 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC/MS SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510A P233.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	10	ug/L
ACENAPHTHYLENE	BDL	10	ug/L
ANTHRACENE	BDL	10	ug/L
BENZ(A)ANTHRACENE	BDL	10	ug/L
BENZO(A)PYRENE	BDL	10	ug/L
BENZO(B)FLUORANTHENE	BDL	10	ug/L
BENZO(G,H,I)PERYLENE	BDL	10	ug/L
BENZO(K)FLUORANTHENE	BDL	10	ug/L
BENZYL ALCOHOL	BDL	10	ug/L
BENZYLBUTYLPHthalate	BDL	10	ug/L
BIS(2-CHLOROETHoxy)METHANE	BDL	10	ug/L
BIS(2-CHLOROETHYL)ETHER	BDL	10	ug/L
BIS(2-CHLORoisopROPYL)ETHER	BDL	10	ug/L
BIS(2-ETHYLHEXYL)PHthalate	BDL	10	ug/L
4-BROMOPHENYLPHENylether	BDL	10	ug/L
CARBAZOLE	BDL	10	ug/L
4-CHLORoANILINE	BDL	10	ug/L
2-CHLORONAPHTHALENE	BDL	10	ug/L
1-CHLOROPHENYLPHENylether	BDL	10	ug/L
CHRYSENE	BDL	10	ug/L
DI BENZ(A,H)ANTHRACENE	BDL	10	ug/L
DI BENZOFURAN	BDL	10	ug/L
1,2-DICHLOROBENZENE	BDL	10	ug/L
1,3-DICHLOROBENZENE	BDL	10	ug/L
1,4-DICHLOROBENZENE	BDL	10	ug/L
3,3'-DICHLOROBENZIDINE	BDL	20	ug/L
DIETHYLPHthalate	BDL	10	ug/L
DI METHYLPHthalate	BDL	10	ug/L
DI-N-BUTYLPHthalate	BDL	10	ug/L
DINITROBENZENES	BDL	50	ug/L
2,4-DINITROToluene	BDL	10	ug/L
2,6-DINITROToluene	BDL	10	ug/L

Parameter	Result	Det. Limit	Units
DI-N-OCTYLPHthalATE	BDL	10	ug/L
FLUORANTHENE	BDL	10	ug/L
FLUORENE	BDL	10	ug/L
HEXACHLOROBENZENE	BDL	10	ug/L
HEXACHLOROBUTADIENE	BDL	10	ug/L
HEXACHLOROCYCLOPENTADIENE	BDL	10	ug/L
HEXACHLOROETHANE	BDL	10	ug/L
INDENO(1,2,3-CD)PYRENE	BDL	10	ug/L
ISOPHORONE	BDL	10	ug/L
2-METHYLNAPHTHALENE	BDL	10	ug/L
NAPHTHALENE	BDL	10	ug/L
2-NITROANILINE	BDL	50	ug/L
3-NITROANILINE	BDL	50	ug/L
4-NITROANILINE	BDL	50	ug/L
NITROBENZENE	BDL	10	ug/L
N-NITROSO-DIPHENYLAMINE	BDL	10	ug/L
N-NITROSO-DI-N-PROPYLAMINE	BDL	10	ug/L
PHENANTHRENE	BDL	10	ug/L
2-PICOLINE	BDL	50	ug/L
PYRENE	BDL	10	ug/L
PYRIDINE	BDL	50	ug/L
TETRACHLOROBENZENES	BDL	10	ug/L
TOLUENEDIAMINE	BDL	50	ug/L
1,2,4-TRICHLOROBENZENE	BDL	10	ug/L
BENZOIC ACID	BDL	50	ug/L
4-CHLORO-3-METHYLPHENOL	BDL	10	ug/L
2-CHLOROPHENOL	BDL	10	ug/L
2,4-DICHLOROPHENOL	BDL	10	ug/L
2,4-DIMETHYLPHENOL	BDL	10	ug/L
4,6-DINITRO-2-METHYLPHENOL	BDL	50	ug/L
2,4-DINITROPHENOL	BDL	50	ug/L
2-METHYLPHENOL	BDL	10	ug/L
4-METHYLPHENOL	BDL	10	ug/L
2-NITROPHENOL	BDL	10	ug/L
4-NITROPHENOL	BDL	50	ug/L
PENTACHLOROPHENOL	BDL	50	ug/L
PHENOL	BDL	10	ug/L
TETRACHLOROPHENOL	BDL	10	ug/L
2,4,5-TRICHLOROPHENOL	BDL	50	ug/L
2,4,6-TRICHLOROPHENOL	BDL	10	ug/L
SURROGATE RECOVERY			
2-FLUOROPHENOL	56	% Rec	
PHENOL-D5	30	% Rec	
NITROBENZENE-D5	89	% Rec	
2-FLUOROBIPHENYL	83	% Rec	
2,4,6-TRIBROMOPHENOL	81	% Rec	
TERPHENYL-D14	64	% Rec	

GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510A

Analyst: M. KEEZER

Analysis Date: 22-OCT-83

Test: P233.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1000	ml	ml
FINAL VOLUME	10	ml	ml

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: E. VERNZ Analysis Date: 23-OCT-93 Instrument: GC/ECD
 Prep: GC SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION SW846-3510A P233.1.0

Test: 0305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.00005	mg/L
BETA-BHC	BDL	0.00005	mg/L
DELTA-BHC	BDL	0.00005	mg/L
GAMMA-BHC (LINDANE)	BDL	0.00005	mg/L
HEPTACHLOR	BDL	0.00005	mg/L
ALDRIN	BDL	0.00005	mg/L
HEPTACHLOR EPOXIDE	BDL	0.00005	mg/L
ENDOSULFAN I	BDL	0.00005	mg/L
DIELDRIN	BDL	0.0001	mg/L
4,4'-DDE	BDL	0.0001	mg/L
ENDRIN	BDL	0.0001	mg/L
ENDOSULFAN II	BDL	0.0001	mg/L
4,4'-DDD	BDL	0.0001	mg/L
ENDOSULFAN SULFATE	BDL	0.0001	mg/L
4,4'-DDT	BDL	0.0001	mg/L
METHOXYCHLOR	BDL	0.0005	mg/L
ENDRIN ALDEHYDE	BDL	0.0001	mg/L
ENDRIN KETONE	BDL	0.0001	mg/L
ALPHA-CHLORDANE	BDL	0.0005	mg/L
GAMMA-CHLORDANE	BDL	0.0005	mg/L
TOXAPHENE	BDL	0.001	mg/L
PCB AROCHLOR 1016	BDL	0.0005	mg/L
PCB AROCHLOR 1221	BDL	0.0005	mg/L
PCB AROCHLOR 1232	BDL	0.0005	mg/L
PCB AROCHLOR 1242	BDL	0.0005	mg/L
PCB AROCHLOR 1248	BDL	0.0005	mg/L
PCB AROCHLOR 1254	BDL	0.0010	mg/L
PCB AROCHLOR 1260	BDL	0.0010	mg/L
DECACHLOROBIPHENYL (DCB)	103.2		Percent

FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A

Analyst: E. MERRILL Analysis Date: 27-OCT-93

Test: P130.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		ml
FINAL VOLUME	50		ml

BARIUM ICP SW846-6010A

Analyst: M. JAO Analysis Date: 28-OCT-93 08:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M104.3.0

Parameter	Result	Det. Limit	Units
BARIUM	BDL	0.010	mg/L

CADMIUM ICP SW846-6010A

Analyst: M. JAO Analysis Date: 28-OCT-93 08:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M108.3.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.0050	mg/L

HERITAGE LABORATORIES, INC.

Lab Sample ID: A293865

CHROMIUM ICP SW846-6010A

Analyst: M. JAO Analysis Date: 28-OCT-93 08:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
CHROMIUM	BDL	0.010	mg/L

LEAD ICP SW846-6010A

Analyst: M. JAO Analysis Date: 28-OCT-93 08:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
LEAD	BDL	0.050	mg/L

SILVER ICP SW846-6010A

Analyst: M. JAO Analysis Date: 28-OCT-93 08:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF AQUEOUS SAMPLES SW846-3005A P130.4.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	0.010	mg/L

GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020A

Analyst: C. LADD Analysis Date: 06-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020A P130.6.0

Test: P130.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	50		mL
FINAL VOLUME	50		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 08-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020A P130.6.0

Test: M103.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	BDL	0.0050	mg/L

SELENIUM GFAA SW846-7740

Analyst: M. BAUER Analysis Date: 09-NOV-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-3020A P130.6.0

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.0050	mg/L

MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470

Analyst: G. MAPP Analysis Date: 02-NOV-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470 P131.6.0

Test: P131.6.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	100		mL
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 03-NOV-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF AQUEOUS SAMPLES SW846-7470 P131.6.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.00020	mg/L

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 14431.

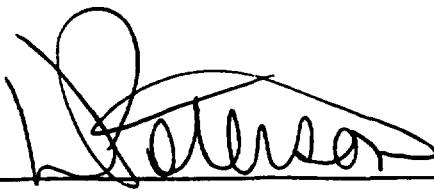
IDEM Drinking Water Certification Number C-49-01

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Sample Comments

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RR 1, BOX 555, ROCKVILLE, IN 47872

Quality Assurance Officer:

A handwritten signature in black ink, appearing to read "Charles Jackson".

Page 6 (last page)

C E R T I F I C A T E O F A N A L Y S I S

Service Location	Received	Project	Lab ID
HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	27-SEP-93	2506	A291170
	Complete	PO Number	
	20-OCT-93	10011993-001RJA	
	Printed	Sampled	
	20-OCT-93	27-SEP-93 14:55	

Report To	Bill To
ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description	
DESCRIPTION: DP SUMP SOIL SAMPLE LOCATION: ENVIROCHEM	

TOTAL SOLIDS EPA 160.3			
Analyst: B. PRIDEMORE	Analysis Date: 28-SEP-93	Test: G401.7.0	
Parameter	Result	Det. Limit	Units
SOLIDS	90	0.001	Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A			
Analyst: G. WILSON	Analysis Date: 01-OCT-93 13:53	Instrument: GC/MS YOK	Test: 0510.9.0
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/kg
ACROLEIN	BDL	50	ug/kg
ACRYLONITRILE	BDL	70	ug/kg
BENZENE	BDL	5	ug/kg
BROMODICHLOROMETHANE	BDL	5	ug/kg
BROMOFORM	BDL	5	ug/kg
BROMOMETHANE	BDL	10	ug/kg
CARBON DISULFIDE	BDL	5	ug/kg
CARBON TETRACHLORIDE	BDL	5	ug/kg
CHLOROBENZENE	BDL	5	ug/kg
CHLOROETHANE	BDL	10	ug/kg
CHLOROFORM	BDL	5	ug/kg
CHLORMETHANE	BDL	10	ug/kg
DIBROMOCHLOROMETHANE	BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
DICHLORODIFLUOROMETHANE	BDL	5	ug/kg
1,1-DICHLOROETHANE	BDL	5	ug/kg
1,2-DICHLOROETHANE	BDL	5	ug/kg
1,1-DICHLOROETHENE	BDL	5	ug/kg
1,2-DICHLOROPROPANE	BDL	5	ug/kg
ETHYLBENZENE	BDL	5	ug/kg
FLUOROTRICHLOROMETHANE	BDL	5	ug/kg
2-HEXANONE	BDL	10	ug/kg
METHYLENE CHLORIDE	13	5	ug/kg
METHYL ETHYL KETONE	BDL	10	ug/kg
4-METHYL-2-PENTANONE	BDL	10	ug/kg
STYRENE	BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/kg
TETRACHLOROETHENE	BDL	5	ug/kg

Parameter	Result	Det. Limit	Units
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	BDL	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	BDL	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	BDL	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	BDL	5	ug/kg
TRICHLORO-TRIFLUOROETHANE	15	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	97		% Rec
TOLUENE-D8	106		% Rec
BROMOFLUOROBENZENE	98		% Rec

Sample reanalyzed with no improvement in internal standard areas.

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: C. KING

Analysis Date: 04-OCT-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: G. BARRETT

Analysis Date: 05-OCT-93 17:29 Instrument: GC/MS SYDA

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalate	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHthalate	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
DIMETHYLPHthalATE	BDL	330	ug/kg
DI-N-BUTYLPHthalATE	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
2,4-DINITROToluENE	BDL	330	ug/kg
2,6-DINITROToluENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	49		% Rec
PHENOL-D5	56		% Rec
NITROBENZENE-D5	53		% Rec
2-FLUOROBIPHENYL	57		% Rec
2,4,6-TRIBROMOPHENOL	38		% Rec
TERPHENYL-D14	62		% Rec

HERITAGE LABORATORIES, INC.

Lab Sample ID: A291170

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: E. WERNZ

Analysis Date: 14-OCT-93

Instrument: GC/ECD

Test: 0305.1.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	73.6		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SHYDER

Analysis Date: 05-OCT-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: A. HILSCHER

Analysis Date: 05-OCT-93 17:00

Instrument: ICP

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M104.3.0

Parameter	Result	Det. Limit	Units
BARIUM	27.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: A. HILSCHER

Analysis Date: 06-OCT-93 17:00

Instrument: ICP

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M108.3.0

Parameter	Result	Det. Limit	Units
CADMIUM	BDL	0.50	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A291170

CHROMIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 05-OCT-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
CHROMIUM	7.5	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 06-OCT-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M116.3.0

Parameter	Result	Det. Limit	Units
LEAD	6.5	5.0	mg/kg

SILVER ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 06-OCT-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. CARDWELL Analysis Date: 11-OCT-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: B. HAHN Analysis Date: 14-OCT-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: W. WATNESS Analysis Date: 18-OCT-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Test: M103.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	3.7	1.5	mg/kg

1:3 DILUTION

SELENIUM GFAA SW846-7740

Analyst: M. BAUER Analysis Date: 14-OCT-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.050	mg/kg

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 11-OCT-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 12-OCT-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.050	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A291170

BDL Below Detection Limit

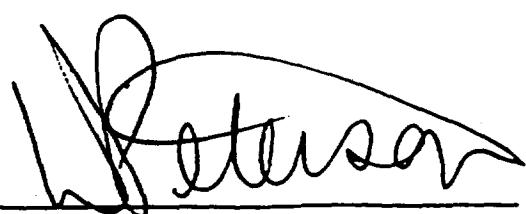
Sample Comments

Sample chain of custody number 10935.

This Certificate shall not be reproduced, except in full,
without the written approval of the lab.

Additional copies of this report sent to:
CHARLES JACKSON, QUALITY ENVIRONMENTAL MANAGEMENT
RR 1, BOX 555, ROCKVILLE, IN 47872

Quality Assurance Officer:



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L I S T O F C O M P L E T E D T A S K S

GC/MS CLP	GC/MS CLP	Completed 14-OCT-93
GC CLP	GC CLP	Completed 19-OCT-93
MTO CLP	METALS CLP REPORT PACKAGE	Completed 19-OCT-93
GEN CLP	GENERAL CHEMISTRY CLP	Completed 04-OCT-93

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 08-SEP-93 Complete 07-OCT-93 Printed 08-OCT-93	Project 2506 PO Number 10011993-001RJA Sampled 08-SEP-93 14:25	Lab ID A289443
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Report To ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	Bill To CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description SAMPLE ID: ECC-DP-06 DESCRIPTION: DECON PAD SOIL LOCATION: ENVIROCHEM	

TOTAL SOLIDS EPA 160.3		Test: G401.7.0	
Analyst: B. PRIDEMORE	Analysis Date: 10-SEP-93		
SOLIDS	Parameter Result 91	Det. Limit 0.001	Units Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A		Test: 0510.9.0
Analyst: G. WILSON	Analysis Date: 21-SEP-93 22:39	Instrument: GC/MS VOA
Parameter	Result	Det. Limit
ACETONE	BDL	20 ug/kg
ACROLEIN	BDL	50 ug/kg
ACRYLONITRILE	BDL	70 ug/kg
BENZENE	BDL	5 ug/kg
BROMODICHLOROMETHANE	BDL	5 ug/kg
BROMOFORM	BDL	5 ug/kg
BROMOMETHANE	BDL	10 ug/kg
CARBON DISULFIDE	BDL	5 ug/kg
CARBON TETRACHLORIDE	BDL	5 ug/kg
CHLOROBENZENE	BDL	5 ug/kg
CHLOROETHANE	BDL	10 ug/kg
CHLOROFORM	BDL	5 ug/kg
CHLOROMETHANE	BDL	10 ug/kg
DIBROMOCHLOROMETHANE	BDL	5 ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5 ug/kg
DICHLORODIFLUOROMETHANE	BDL	5 ug/kg
1,1-DICHLOROETHANE	BDL	5 ug/kg
1,2-DICHLOROETHANE	BDL	5 ug/kg
1,1-DICHLOROETHENE	BDL	5 ug/kg
1,2-DICHLOROPROPANE	BDL	5 ug/kg
ETHYLBENZENE	BDL	5 ug/kg
FLUOROTRICHLOROMETHANE	BDL	5 ug/kg
2-HEXANONE	BDL	10 ug/kg
METHYLENE CHLORIDE	10	5 ug/kg
METHYL ETHYL KETONE	BDL	10 ug/kg
4-METHYL-2-PENTANONE	BDL	10 ug/kg
STYRENE	BDL	5 ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5 ug/kg

Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5	ug/kg
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	BDL	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	30	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	28	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	BDL	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	99		% Rec
TOLUENE-D8	105		% Rec
BROMOFLUOROBENZENE	99		% Rec

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: W. WATNESS

Analysis Date: 16-SEP-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	20		mL

NOTE: SEMI-VOLATILES PREP MEASURED WITH INITIAL WEIGHT AT 30.0 GRAMS
AND FINAL VOLUME AT 1.0 MILLILITER.**GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550**

Analyst: J. KOCH

Analysis Date: 21-SEP-93

Test: P236.4.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	1.0		mL

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: G. HUGHS

Analysis Date: 20-SEP-93 09:45 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalate	BDL	330	ug/kg
BIS(2-CHLOROETHoxy)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLORoisopropyl)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHthalate	BDL	330	ug/kg
4-BROMOPHENYLPHENylether	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLORoANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENylether	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg

Parameter	Result	Det. Limit	Units
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHthalATE	BDL	330	ug/kg
DIMETHYLPHthalATE	BDL	330	ug/kg
DI-N-BUTYLPHthalATE	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXAChLOROBENZENE	BDL	330	ug/kg
HEXAChLOROBUTADIENE	BDL	330	ug/kg
HEXAChLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXAChLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	26		% Rec
PHENOL-D5	36		% Rec

Parameter	Result	Det. Limit	Units
NITROBENZENE-D5	43		% Rec
2-FLUOROBIPHENYL	37		% Rec
2,4,6-TRIBROMOPHENOL	9		% Rec
TERPHENYL-D14	44		% Rec
ALSO DETECTED			
UNKNOWN	EST 130 RT=4.81		ug/kg

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: G. HUGHES

Analysis Date: 22-SEP-93 17:27 Instrument: GC/MS SVOA

Test: 0505.3.1

Prep: GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.4.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg
DIETHYLPHthalATE	BDL	330	ug/kg
DIMETHYLPHthalATE	BDL	330	ug/kg
DI-N-BUTYLPHthalATE	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289443

Parameter	Result	Det. Limit	Units
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY	BDL		
	BDL		
2-FLUOROPHENOL	46		% Rec
PHENOL-D5	48		% Rec
NITROBENZENE-D5	47		% Rec
2-FLUOROBIPHENYL	48		% Rec
2,4,6-TRIBROMOPHENOL	18		% Rec
TERPHENYL-D14	45		% Rec
ALSO DETECTED			
UNKNOWN	EST 210 RT=4.78		ug/kg

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS Analysis Date: 17-SEP-93 Instrument: GC/ECD
Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Test: 0305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289443

Parameter	Result	Det. Limit	Units
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	76		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER

Analysis Date: 14-SEP-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: A. HILSCHER

Analysis Date: 14-SEP-93 17:00 Instrument: ICP

Test: M104.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
BARIUM	33.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: A. HILSCHER

Analysis Date: 14-SEP-93 17:00 Instrument: ICP

Test: M108.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
CADMIUM	1.6	0.50	mg/kg

CHROMIUM ICP SW846-6010A

Analyst: A. HILSCHER

Analysis Date: 14-SEP-93 17:00 Instrument: ICP

Test: M110.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
CHROMIUM	7.0	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: A. HILSCHER

Analysis Date: 14-SEP-93 17:00 Instrument: ICP

Test: M116.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
LEAD	5.8	5.0	mg/kg

SILVER ICP SW846-6010A

Analyst: A. HILSCHER

Analysis Date: 14-SEP-93 17:00 Instrument: ICP

Test: M130.3.0

Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289443

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER

Analysis Date: 14-SEP-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER

Analysis Date: 30-SEP-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: A. ROBERTSON

Analysis Date: 23-SEP-93 Instrument: GFAA

Test: M103.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Parameter	Result	Det. Limit	Units
ARSENIC	5.4	2.0	mg/kg
<i>1:4 DILUTION</i>			

SELENIUM GFAA SW846-7740

Analyst: A. ROBERTSON

Analysis Date: 01-OCT-93 Instrument: GFAA

Test: M128.2.0

Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	1.0	mg/kg
<i>1:2 dilution</i>			

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: G. MAPP

Analysis Date: 20-SEP-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471(MOD)

Analyst: G. MAPP

Analysis Date: 21-SEP-93 Instrument: CVAA

Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

Sample Comments

BDL Below Detection Limit

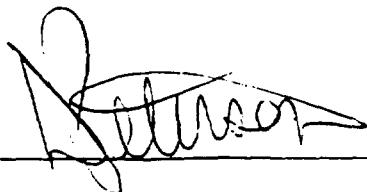
EST Estimated Value

RT Retention Time

Sample chain of custody number 10934.

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CHARLES JACKSON, QUALITY ENVIRONMENTAL MANAGEMENT
RR 1, BOX 555, ROCKVILLE, IN 47872

Quality Assurance Officer:



Page 7 (last page)

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 08-SEP-93	Project 2506	Lab ID A289445
	Complete 07-OCT-93	PO Number 10011993-001RJA	
	Printed 08-OCT-93	Sampled	
			08-SEP-93 15:05

Report To ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	Bill To CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description SAMPLE ID: ECC-DP-09 DESCRIPTION: DECON PAD SOIL LOCATION: ENVIROCHEM	

TOTAL SOLIDS EPA 160.3		Test: G401.7.0		
Analyst: B. PRIDMORE	Analysis Date: 10-SEP-93	Parameter	Result	Det. Limit
SOLIDS		83	0.001	Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A		Test: 0510.9.0		
Analyst: G. WILSON	Analysis Date: 21-SEP-93 23:27	Instrument: GC/MS VOA		
Parameter		Result	Det. Limit	Units
ACETONE		BDL	20	ug/kg
ACROLEIN		BDL	50	ug/kg
ACRYLONITRILE		BDL	70	ug/kg
BENZENE		10	5	ug/kg
BROMODICHLOROMETHANE		BDL	5	ug/kg
BROMOFORM		BDL	5	ug/kg
BROMOMETHANE		BDL	10	ug/kg
CARBON DISULFIDE		BDL	5	ug/kg
CARBON TETRACHLORIDE		BDL	5	ug/kg
CHLOROBENZENE		BDL	5	ug/kg
CHLOROETHANE		BDL	10	ug/kg
CHLOROFORM		BDL	5	ug/kg
CHLOROMETHANE		BDL	10	ug/kg
DIBROMOCHLOROMETHANE		BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE		BDL	5	ug/kg
DICHLORODIFLUOROMETHANE		BDL	5	ug/kg
1,1-DICHLOROETHANE		BDL	5	ug/kg
1,2-DICHLOROETHANE		BDL	5	ug/kg
1,1-DICHLOROETHENE		BDL	5	ug/kg
1,2-DICHLOROPROPANE		BDL	5	ug/kg
ETHYLBENZENE		5	5	ug/kg
FLUOROTRICHLOROMETHANE		BDL	5	ug/kg
2-HEXANONE		BDL	10	ug/kg
METHYLENE CHLORIDE		14	5	ug/kg
METHYL ETHYL KETONE		BDL	10	ug/kg
4-METHYL-2-PENTANONE		BDL	10	ug/kg
STYRENE		BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE		BDL	5	ug/kg

Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	10	5	ug/kg
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	13	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	35	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	79	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	16	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	106		% Rec
TOLUENE-D8	107		% Rec
BROMOFLUOROBENZENE	95		% Rec

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: W. WATNESS

Analysis Date: 16-SEP-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	20		ml

NOTE: SEMI-VOLATILES PREP MEASURED WITH INITIAL WEIGHT OF 30.0 GRAMS AND FINAL VOLUME OF 1.0 MILLILITER.

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: G. HUGHS

Analysis Date: 20-SEP-93 10:43 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalate	BDL	330	ug/kg
BIS(2-CHLOROETHoxy)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLORoisopropyl)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLORoANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg

Parameter	Result	Det. Limit	Units
DIETHYLPHthalATE	BDL	330	ug/kg
DIMETHYLPHthalATE	BDL	330	ug/kg
DI-N-BUTYLPHthalATE	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	72		% Rec
PHENOL-D5	75		% Rec
NITROBENZENE-D5	76		% Rec
2-FLUOROBIPHENYL	64		% Rec
2,4,6-TRIBROMOPHENOL	55		% Rec
TERPHENYL-D14	78		% Rec

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS Analysis Date: 17-SEP-93 Instrument: GC/ECD
 Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Test: Q305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	88.8		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER Analysis Date: 14-SEP-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M104.3.0

Parameter	Result	Det. Limit	Units
BARIUM	79.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M108.3.0

Parameter	Result	Det. Limit	Units
CADMIUM	2.8	0.50	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289445

CHROMIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
CHROMIUM	14.	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M116.3.0

Parameter	Result	Det. Limit	Units
LEAD	12.	5.0	mg/kg

SILVER ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER Analysis Date: 14-SEP-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER Analysis Date: 30-SEP-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: A. ROBERTSON Analysis Date: 23-SEP-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Test: M103.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	4.2	2.0	mg/kg

1:4 DILUTION

SELENIUM GFAA SW846-7740

Analyst: A. ROBERTSON Analysis Date: 01-OCT-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.50	mg/kg

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 20-SEP-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME			Grams
FINAL VOLUME	0.4	100	mL

MERCURY CVAA SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 21-SEP-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

BDL Below Detection Limit

Sample Comments

Sample chain of custody number 10934.

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RR 1, BOX 555, ROCKVILLE, IN 47872

Quality Assurance Officer:



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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 08-SEP-93	Project 2506	Lab ID A289446
	Complete 07-OCT-93	PO Number 10011993-001RJA	
	Printed 08-OCT-93	Sampled	
			08-SEP-93 15:35

Report To ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	Bill To CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description SAMPLE ID: ECC-DP-15 DESCRIPTION: DECON PAD SOIL LOCATION: ENVIROCHEM	

TOTAL SOLIDS EPA 160.3			
Analyst: G. PRIDEMORE	Analysis Date: 10-SEP-93	Test: G401.7.0	
Parameter	Result	Det. Limit	Units
SOLIDS	91	0.001	Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A			
Analyst: G. WILSON	Analysis Date: 22-SEP-93 07:07	Instrument: GC/MS VOA	Test: 0510.9.0
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/kg
ACROLEIN	BDL	50	ug/kg
ACRYLONITRILE	BDL	70	ug/kg
BENZENE	7	5	ug/kg
BROMODICHLOROMETHANE	BDL	5	ug/kg
BROMOFORM	BDL	5	ug/kg
BROMOMETHANE	BDL	10	ug/kg
CARBON DISULFIDE	BDL	5	ug/kg
CARBON TETRACHLORIDE	BDL	5	ug/kg
CHLOROBENZENE	BDL	5	ug/kg
CHLOROETHANE	BDL	10	ug/kg
CHLOROFORM	BDL	5	ug/kg
CHLOROMETHANE	BDL	10	ug/kg
DIBROMOCHLOROMETHANE	BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
DICHLORODIFLUOROMETHANE	BDL	5	ug/kg
1,1-DICHLOROETHANE	BDL	5	ug/kg
1,2-DICHLOROETHANE	BDL	5	ug/kg
1,1-DICHLOROETHENE	BDL	5	ug/kg
1,2-DICHLOROPROPANE	BDL	5	ug/kg
ETHYLBENZENE	BDL	5	ug/kg
FLUOROTRICHLOROMETHANE	BDL	5	ug/kg
2-HEXANONE	BDL	10	ug/kg
METHYLENE CHLORIDE	10	5	ug/kg
METHYL ETHYL KETONE	BDL	10	ug/kg
4-METHYL-2-PENTANONE	BDL	10	ug/kg
STYRENE	BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289446

Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	10	5	ug/kg
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	12	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	32	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	93	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	9	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	95		% Rec
TOLUENE-D8	106		% Rec
BROMOFLUOROBENZENE	98		% Rec

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: U. WATNESS

Analysis Date: 16-SEP-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	20		ml

NOTE: SEMI-VOLATILES PREP MEASURED WITH AN INITIAL WEIGHT OF 30.0 GRAMS AND FINAL VOLUME OF 1.0 MILLILITER.

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: G. HUGHS

Analysis Date: 16-SEP-93 17:29 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalate	BDL	330	ug/kg
BIS(2-CHLOROETHoxy)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLORoisopropyl)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHthalate	BDL	330	ug/kg
4-BROMOPHENYLPHENylether	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLORoANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENylether	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg

Parameter	Result	Det. Limit	Units
DIETHYLPHthalATE	BDL	330	ug/kg
DIMETHYLPHthalATE	BDL	330	ug/kg
DI-N-BUTYLPHthalATE	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	56		% Rec
PHENOL-D5	62		% Rec
NITROBENZENE-D5	70		% Rec
2-FLUOROBIPHENYL	61		% Rec
2,4,6-TRIBROMOPHENOL	19		% Rec
TERPHENYL-D14	65		% Rec

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS Analysis Date: 17-SEP-93 Instrument: GC/ECD
 Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Test: 0305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	80.4		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SHYDER Analysis Date: 14-SEP-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		
FINAL WEIGHT OR VOLUME	100		Grams mL

BARIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M104.3.0

Parameter	Result	Det. Limit	Units
BARIUM	37.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M108.3.0

Parameter	Result	Det. Limit	Units
CADMIUM	1.9	0.50	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289446

CHROMIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
CHROMIUM	8.2	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M116.3.0

Parameter	Result	Det. Limit	Units
LEAD	5.7	5.0	mg/kg

SILVER ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER Analysis Date: 14-SEP-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER Analysis Date: 30-SEP-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

ARSENIC GFAA SW846-7060

Analyst: A. ROBERTSON Analysis Date: 23-SEP-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Test: M103.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	5.6	2.0	mg/kg

1:4 DILUTION

SELENIUM GFAA SW846-7740

Analyst: A. ROBERTSON Analysis Date: 01-OCT-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.50	mg/kg

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 20-SEP-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		mL

MERCURY CVAA SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 21-SEP-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

BDL Below Detection Limit

Sample Comments

Sample chain of custody number 10934.

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*Additional copies of this report sent to:
CHARLES JACKSON, QUALITY ENVIRONMENTAL MANAGEMENT
RR 1, BOX 555, ROCKVILLE, IN 47872*

Quality Assurance Officer:



C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 08-SEP-93	Project 2506	Lab ID A289448
	Complete 07-OCT-93	PO Number 10011993-001RJA	
	Printed 08-OCT-93	Sampled	
			08-SEP-93 15:45

Report To	Bill To
ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description	
SAMPLE ID: ECC-DP-15 (DUP) DESCRIPTION: DECON PAD SOIL LOCATION: ENVIROCHEM	

TOTAL SOLIDS EPA 160.3			
Analyst: B. PRIDEMORE	Analysis Date: 10-SEP-93	Test: G401.7.0	
Parameter	Result	Det. Limit	Units
SOLIDS	92	0.001	Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A			
Analyst: G. WILSON	Analysis Date: 22-SEP-93 00:15	Instrument: GC/MS-VOA	Test: 0510.9.0
Parameter	Result	Det. Limit	Units
ACETONE	BDL	20	ug/kg
ACROLEIN	BDL	50	ug/kg
ACRYLONITRILE	BDL	70	ug/kg
BENZENE	9	5	ug/kg
BROMODICHLOROMETHANE	BDL	5	ug/kg
BROMOFORM	BDL	5	ug/kg
BROMOMETHANE	BDL	10	ug/kg
CARBON DISULFIDE	BDL	5	ug/kg
CARBON TETRACHLORIDE	BDL	5	ug/kg
CHLOROBENZENE	BDL	5	ug/kg
CHLOROETHANE	BDL	10	ug/kg
CHLOROFORM	BDL	5	ug/kg
CHLOROMETHANE	BDL	10	ug/kg
DIBROMOCHLOROMETHANE	BDL	5	ug/kg
CIS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
DICHLORODIFLUOROMETHANE	BDL	5	ug/kg
1,1-DICHLOROETHANE	BDL	5	ug/kg
1,2-DICHLOROETHANE	BDL	5	ug/kg
1,1-DICHLOROETHENE	BDL	5	ug/kg
1,2-DICHLOROPROPANE	BDL	5	ug/kg
ETHYLBENZENE	BDL	5	ug/kg
FLUOROTRICHLOROMETHANE	BDL	5	ug/kg
2-HEXANONE	BDL	10	ug/kg
METHYLENE CHLORIDE	13	5	ug/kg
METHYL ETHYL KETONE	BDL	10	ug/kg
4-METHYL-2-PENTANONE	BDL	10	ug/kg
STYRENE	BDL	5	ug/kg
1,1,2,2-TETRACHLOROETHANE	BDL	5	ug/kg

Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	11	5	ug/kg
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	11	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	60	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	130	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	BDL	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	106		% Rec
TOLUENE-D8	106		% Rec
BROMOFLUOROBENZENE	100		% Rec

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: W. WATNESS

Analysis Date: 16-SEP-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	20		mL

NOTE: SEMI-VOLATILES PREP MEASURED WITH AN INITIAL WEIGHT OF 30.0 GRAMS AND FINAL VOLUME OF 1.0 MILLILITER.

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: G. HUGHS

Analysis Date: 20-SEP-93 11:38 Instrument: GC/MS SVD

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHTHALATE	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENYLETHER	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLOROANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENYLETHER	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289448

Parameter	Result	Det. Limit	Units
DIETHYLPHthalATE	BDL	330	ug/kg
DIMETHYLPHthalATE	BDL	330	ug/kg
DI-N-BUTYLPHthalATE	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
2,4-DINITROTOLUENE	BDL	330	ug/kg
2,6-DINITROTOLUENE	BDL	330	ug/kg
DI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
FLUORENE	BDL	330	ug/kg
HEXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
HEXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
HEXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
ISOPHORONE	BDL	330	ug/kg
2-METHYLNAPHTHALENE	BDL	330	ug/kg
NAPHTHALENE	BDL	330	ug/kg
2-NITROANILINE	BDL	1600	ug/kg
3-NITROANILINE	BDL	1600	ug/kg
4-NITROANILINE	BDL	1600	ug/kg
NITROBENZENE	BDL	330	ug/kg
N-NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
N-NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
PHENANTHRENE	BDL	330	ug/kg
2-PICOLINE	BDL	1600	ug/kg
PYRENE	BDL	330	ug/kg
PYRIDINE	BDL	1600	ug/kg
TETRACHLOROBENZENES	BDL	330	ug/kg
TOLUENEDIAMINE	BDL	1600	ug/kg
1,2,4-TRICHLOROBENZENE	BDL	330	ug/kg
BENZOIC ACID	BDL	1600	ug/kg
4-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
2-CHLOROPHENOL	BDL	330	ug/kg
2,4-DICHLOROPHENOL	BDL	330	ug/kg
2,4-DIMETHYLPHENOL	BDL	330	ug/kg
4,6-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
2,4-DINITROPHENOL	BDL	1600	ug/kg
2-METHYLPHENOL	BDL	330	ug/kg
4-METHYLPHENOL	BDL	330	ug/kg
2-NITROPHENOL	BDL	330	ug/kg
4-NITROPHENOL	BDL	1600	ug/kg
PENTACHLOROPHENOL	BDL	1600	ug/kg
PHENOL	BDL	330	ug/kg
TETRACHLOROPHENOL	BDL	330	ug/kg
2,4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
2,4,6-TRICHLOROPHENOL	BDL	330	ug/kg
SURROGATE RECOVERY			
2-FLUOROPHENOL	47		% Rec
PHENOL-D5	52		% Rec
NITROBENZENE-D5	54		% Rec
2-FLUOROBIPHENYL	47		% Rec
2,4,6-TRIBROMOPHENOL	25		% Rec
TERPHENYL-D14	59		% Rec

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS Analysis Date: 17-SEP-93 Instrument: GC/ECD
 Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Test: Q305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDE	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	70.2		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER Analysis Date: 14-SEP-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M104.3.0

Parameter	Result	Det. Limit	Units
BARIUM	35.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M108.3.0

Parameter	Result	Det. Limit	Units
CADMIUM	1.9	0.50	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289448

CHROMIUM ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M110.3.0

Parameter	Result	Det. Limit	Units
CHROMIUM	7.7	1.0	mg/kg

LEAD ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M116.3.0

Parameter	Result	Det. Limit	Units
LEAD	6.9	5.0	mg/kg

SILVER ICP SW846-6010A

Analyst: A. HILSCHER Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: M130.3.0

Parameter	Result	Det. Limit	Units
SILVER	BDL	1.0	mg/kg

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER Analysis Date: 14-SEP-93

Test: P130.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		ml

GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER Analysis Date: 30-SEP-93

Test: P130.7.1

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		ml

ARSENIC GFAA SW846-7060

Analyst: A. ROBERTSON Analysis Date: 23-SEP-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.0

Test: M103.2.0

Parameter	Result	Det. Limit	Units
ARSENIC	5.8	2.0	mg/kg

1:4 DILUTION

SELENIUM GFAA SW846-7740

Analyst: A. ROBERTSON Analysis Date: 01-OCT-93 Instrument: GFAA
 Prep: GFAA ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P130.7.1

Test: M128.2.0

Parameter	Result	Det. Limit	Units
SELENIUM	BDL	0.50	mg/kg

MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 20-SEP-93

Test: P131.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	0.4		Grams
FINAL VOLUME	100		ml

MERCURY CVAA SW846-7471(MOD)

Analyst: G. MAPP Analysis Date: 21-SEP-93 Instrument: CVAA
 Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Test: M120.2.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289448

BDL Below Detection Limit

Sample Comments

Sample chain of custody number 10934.

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CHARLES JACKSON, QUALITY ENVIRONMENTAL MANAGEMENT
RR 1, BOX 555, ROCKVILLE, IN 47872



Quality Assurance Officer:

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 08-SEP-93	Project 2506	Lab ID A289459
	Complete 07-OCT-93	PO Number 10011993-001RJA	
	Printed 08-OCT-93	Sampled	
			08-SEP-93 10:10

Report To	Bill To
ROBERT J. AUTIO QUALITY ENVIRONMENTAL MANAGEMENT 1640 STRICKLAND MARTINSVILLE, IN 46151	CHARLES JACKSON QUALITY ENVIRONMENTAL MANAGEMENT RR 1, BOX 555 ROCKVILLE, IN 47872
Sample Description	
SAMPLE ID: ECC-DP-22 DESCRIPTION: DECON PAD SOIL LOCATION: ENVIROCHEM	

TOTAL SOLIDS EPA 160.3		Test: G401.7.0
Analyst: B. PRIDEMORE	Analysis Date: 10-SEP-93	
SOLIDS	Parameter Result 88	Det. Limit 0.001 Units Percent

VOLATILE ORGANICS (HEATED PURGE & TRAP) SW846-8240A		Test: 0510.9.0
Analyst: G. WILSON	Analysis Date: 22-SEP-93 09:32	Instrument: GC/MS VOA
ACETONE	Parameter	Result
ACROLEIN		BDL
ACRYLONITRILE		BDL
BENZENE		BDL
BROMODICHLOROMETHANE		BDL
BROMOFORM		BDL
BROMOMETHANE		BDL
CARBON DISULFIDE		BDL
CARBON TETRACHLORIDE		BDL
CHLOROBENZENE		BDL
CHLOROETHANE		BDL
CHLOROFORM		BDL
CHLOROMETHANE		BDL
DIBROMOCHLOROMETHANE		BDL
CIS-1,3-DICHLOROPROPENE		BDL
DICHLORODIFLUOROMETHANE		BDL
1,1-DICHLOROETHANE		BDL
1,2-DICHLOROETHANE		BDL
1,1-DICHLOROETHENE		BDL
1,2-DICHLOROPROPANE		BDL
ETHYLBENZENE		BDL
FLUOROTRICHLOROMETHANE		BDL
2-HEXANONE		BDL
METHYLENE CHLORIDE		8
METHYL ETHYL KETONE		BDL
4-METHYL-2-PENTANONE		BDL
STYRENE		BDL
1,1,2,2-TETRACHLOROETHANE		BDL

Parameter	Result	Det. Limit	Units
TETRACHLOROETHENE	BDL	5	ug/kg
TETRAHYDROFURAN	BDL	25	ug/kg
TOLUENE	7	5	ug/kg
1,2-DICHLOROETHENE (TOTAL)	BDL	5	ug/kg
TRANS-1,3-DICHLOROPROPENE	BDL	5	ug/kg
1,1,1-TRICHLOROETHANE	10	5	ug/kg
1,1,2-TRICHLOROETHANE	BDL	5	ug/kg
TRICHLOROETHENE	49	5	ug/kg
VINYL ACETATE	BDL	10	ug/kg
VINYL CHLORIDE	BDL	10	ug/kg
XYLENE (TOTAL)	10	5	ug/kg
SURROGATE RECOVERY			
DICHLOROETHANE-D4	96		% Rec
TOLUENE-D8	105		% Rec
BROMOFLUOROBENZENE	94		% Rec

GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550

Analyst: W. WATNESS

Analysis Date: 16-SEP-93

Test: P236.0.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	30.0		Grams
FINAL VOLUME	20		mL

NOTE: SEMI-VOLATILES PREP MEASURED WITH INITIAL WEIGHT OF 30.0 GRAMS AND FINAL VOLUME OF 1.0 MILLILITER.

SEMI-VOLATILE ORGANICS (BASE/NEUTRAL/ACID FRACTIONS) SW846-8270A

Analyst: G. HUGHES

Analysis Date: 20-SEP-93 12:55 Instrument: GC/MS SVOA

Test: 0505.3.0

Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Parameter	Result	Det. Limit	Units
ACENAPHTHENE	BDL	330	ug/kg
ACENAPHTHYLENE	BDL	330	ug/kg
ANTHRACENE	BDL	330	ug/kg
BENZ(A)ANTHRACENE	BDL	330	ug/kg
BENZO(A)PYRENE	BDL	330	ug/kg
BENZO(B)FLUORANTHENE	BDL	330	ug/kg
BENZO(G,H,I)PERYLENE	BDL	330	ug/kg
BENZO(K)FLUORANTHENE	BDL	330	ug/kg
BENZYL ALCOHOL	BDL	330	ug/kg
BENZYLBUTYLPHthalate	BDL	330	ug/kg
BIS(2-CHLOROETHOXY)METHANE	BDL	330	ug/kg
BIS(2-CHLOROETHYL)ETHER	BDL	330	ug/kg
BIS(2-CHLOROISOPROPYL)ETHER	BDL	330	ug/kg
BIS(2-ETHYLHEXYL)PHTHALATE	BDL	330	ug/kg
4-BROMOPHENYLPHENylether	BDL	330	ug/kg
CARBAZOLE	BDL	330	ug/kg
4-CHLORoANILINE	BDL	330	ug/kg
2-CHLORONAPHTHALENE	BDL	330	ug/kg
4-CHLOROPHENYLPHENylether	BDL	330	ug/kg
CHRYSENE	BDL	330	ug/kg
DIBENZ(A,H)ANTHRACENE	BDL	330	ug/kg
DIBENZOFURAN	BDL	330	ug/kg
1,2-DICHLOROBENZENE	BDL	330	ug/kg
1,3-DICHLOROBENZENE	BDL	330	ug/kg
1,4-DICHLOROBENZENE	BDL	330	ug/kg
3,3'-DICHLOROBENZIDINE	BDL	660	ug/kg

Parameter	Result	Det. Limit	Units
DIETHYLPHthalATE	BDL	330	ug/kg
IMETHYLPHthalATE	BDL	330	ug/kg
-I-N-BUTYLPHthalATE	BDL	330	ug/kg
DINITROBENZENES	BDL	1600	ug/kg
,4-DINITROToluENE	BDL	330	ug/kg
,6-DINITROToluENE	BDL	330	ug/kg
UI-N-OCTYLPHthalATE	BDL	330	ug/kg
FLUORANTHENE	BDL	330	ug/kg
UORENE	BDL	330	ug/kg
-EXACHLOROBENZENE	BDL	330	ug/kg
HEXACHLOROBUTADIENE	BDL	330	ug/kg
EXACHLOROCYCLOPENTADIENE	BDL	330	ug/kg
EXACHLOROETHANE	BDL	330	ug/kg
INDENO(1,2,3-CD)PYRENE	BDL	330	ug/kg
SOPHORONE	BDL	330	ug/kg
METHYLNAPHTHALENE	BDL	330	ug/kg
PHTHALENE	BDL	330	ug/kg
-NITROANILINE	BDL	1600	ug/kg
NITROANILINE	BDL	1600	ug/kg
NITROANILINE	BDL	1600	ug/kg
IITROBENZENE	BDL	330	ug/kg
NITROSO-DIPHENYLAMINE	BDL	330	ug/kg
NITROSO-DI-N-PROPYLAMINE	BDL	330	ug/kg
nENANTHRENE	BDL	330	ug/kg
-PICOLINE	BDL	1600	ug/kg
ENE	BDL	330	ug/kg
XIDINE	BDL	1600	ug/kg
ETRACHLOROBENZENES	BDL	330	ug/kg
UENEDIAMINE	BDL	1600	ug/kg
,4-TRICHLOROBENZENE	BDL	330	ug/kg
ENZOIC ACID	BDL	1600	ug/kg
-CHLORO-3-METHYLPHENOL	BDL	330	ug/kg
HLOROPHENOL	BDL	330	ug/kg
-DICHLOROPHENOL	BDL	330	ug/kg
,4-DIMETHYLPHENOL	BDL	330	ug/kg
-DINITRO-2-METHYLPHENOL	BDL	1600	ug/kg
-DINITROPHENOL	BDL	1600	ug/kg
METHYLPHENOL	BDL	330	ug/kg
METHYLPHENOL	BDL	330	ug/kg
ITROPHENOL	BDL	330	ug/kg
NITROPHENOL	BDL	1600	ug/kg
NTACHLOROPHENOL	BDL	1600	ug/kg
IOL	BDL	330	ug/kg
-ACHLOROPHENOL	BDL	330	ug/kg
4,5-TRICHLOROPHENOL	BDL	1600	ug/kg
6-TRICHLOROPHENOL	BDL	330	ug/kg
PROGATE RECOVERY			
UOROPHENOL	69		% Rec
-OL-D5	75		% Rec
TROBENZENE-D5	77		% Rec
JOROBIPHENYL	64		% Rec
5-TRIBROMOPHENOL	55		% Rec
PHENYL-D14	66		% Rec

PCB/PESTICIDE SCAN GC:ECD SW846-8080

Analyst: L. DOBBINS Analysis Date: 17-SEP-93 Instrument: GC/ECD
 Prep: GC & GC/MS SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.0.0

Test: 0305.1.0

Parameter	Result	Det. Limit	Units
ALPHA-BHC	BDL	0.008	mg/kg
BETA-BHC	BDL	0.008	mg/kg
DELTA-BHC	BDL	0.008	mg/kg
GAMMA-BHC (LINDANE)	BDL	0.008	mg/kg
HEPTACHLOR	BDL	0.008	mg/kg
ALDRIN	BDL	0.008	mg/kg
HEPTACHLOR EPOXIDE	BDL	0.008	mg/kg
ENDOSULFAN I	BDL	0.008	mg/kg
DIELDRIN	BDL	0.016	mg/kg
4,4'-DDO	BDL	0.016	mg/kg
ENDRIN	BDL	0.016	mg/kg
ENDOSULFAN II	BDL	0.016	mg/kg
4,4'-DDD	BDL	0.016	mg/kg
ENDOSULFAN SULFATE	BDL	0.016	mg/kg
4,4'-DDT	BDL	0.016	mg/kg
METHOXYCHLOR	BDL	0.08	mg/kg
ENDRIN ALDEHYDE	BDL	0.016	mg/kg
ENDRIN KETONE	BDL	0.016	mg/kg
ALPHA-CHLORDANE	BDL	0.08	mg/kg
GAMMA-CHLORDANE	BDL	0.08	mg/kg
TOXAPHENE	BDL	0.16	mg/kg
PCB AROCHLOR 1016	BDL	0.08	mg/kg
PCB AROCHLOR 1221	BDL	0.08	mg/kg
PCB AROCHLOR 1232	BDL	0.08	mg/kg
PCB AROCHLOR 1242	BDL	0.08	mg/kg
PCB AROCHLOR 1248	BDL	0.08	mg/kg
PCB AROCHLOR 1254	BDL	0.16	mg/kg
PCB AROCHLOR 1260	BDL	0.16	mg/kg
DECACHLOROBIPHENYL (DCB)	89.8		Percent

FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A

Analyst: S. SNYDER Analysis Date: 14-SEP-93

Test: P129.7.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	1		Grams
FINAL WEIGHT OR VOLUME	100		mL

BARIUM ICP SW846-6010A

Analyst: A. NILSCHEK Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: #104.3.0

Parameter	Result	Det. Limit	Units
BARIUM	54.	1.0	mg/kg

CADMIUM ICP SW846-6010A

Analyst: A. NILSCHEK Analysis Date: 14-SEP-93 17:00 Instrument: ICP
 Prep: FAA OR ICP ACID DIGESTION OF S/S/S SAMPLES SW846-3050A P129.7.0

Test: #108.3.0

Parameter	Result	Det. Limit	Units
CADMIUM	2.2	0.50	mg/kg

HERITAGE LABORATORIES, INC.

Lab Sample ID: A289459

MERCURY CVAA SW846-7471(MOD)

Analyst: G. MAPP

Analysis Date: 21-SEP-93

Instrument: CVAA

Test: M120.2.0

Prep: MERCURY CVAA ACID DIGESTION OF S/S/S SAMPLES SW846-7471(MOD) P131.7.0

Parameter	Result	Det. Limit	Units
MERCURY	BDL	0.13	mg/kg

BDL Below Detection Limit

Sample Comments

Sample chain of custody number 10934.

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RR 1, BOX 555, ROCKVILLE, IN 47872

Quality Assurance Officer:



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ERM

ERM**Environmental
Resources
Management****SAMPLE CHAIN OF CUSTODY**

W.O.No.:		Project Name:					Number of Containers	Remarks	
Sampler:		Date	Time	C O M P	G R A B	Station Location			
ERM Sample Number									
Sample Relinquished by:		Date	Time	Sample Received by:			Date	Time	Reason for Transfer

COPIES: White & Yellow copies accompany sample shipment to laboratory. Yellow copy retained by laboratory. White copy to be returned to ERM for files. Pink copy retained by sampler. Gold copy extra copy as needed.